

# CAMPANALOGIA

IMPROVED:

OR,

The Art of RINGING made  
Easie: by Plain and Methodical  
Rules and Directions, whereby the  
ingenious Practioner may with a lit-  
tle Practice and Care attain to the  
Knowledge of Ringing all manner  
of *Double, Tripple, and Quadruple*  
*Changes.* With Variety of New  
*Peals* upon 5, 6, 7, 8, and 9 *Bells*:  
As also, The Method of Calling  
*Bobs* for any *Peal* of *Triples*, from  
168, to 2520, (being the *Half*  
*Peal*;) Also for any *Peal* of *Qua-*  
*druples* or *Cators*, from 324, to  
11340; never before Published.

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By J. D. and C. M. Members of the  
Society of London Scholars.

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*Liberi Artibus instruendi. Cato Lib. I.*

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L O N D O N,

Printed for George Sambridge at the Three  
Flower-de-Luces in Little Britain, 1702.

CAMPANALOGIA

THE

ARTIST'S

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THE  
EPISTLE DEDICATORY.  
TO

Our Honour'd and much  
Esteem'd Friends, the  
Society of *London-Scho-*  
*lars.*

*Gentlemen,*

**I**T being a thing much  
observ'd, and (as it  
were) made a general  
Rule by writers, to shel-  
ter their works under the  
wings or Protection, of  
A 3 some

## *The Epistle*

Some ingenious Person  
whose knowledge is not  
only commonly esteem'd,  
but likewise experimental-  
ly known to be universal  
in the matter they treat  
of; we cannot but think  
our selves absolutely ob-  
lig'd to have you in the  
front of this small treatise,  
not only because your  
knowledge in this Art,  
(from whence we have  
gain'd what our mean Ca-  
pacities wou'd receive in  
the knowledge and expe-  
rience

## *Dedictory.*

rience of the same) together with your natural reasons, is a sufficient guard to defend it from the assaults of ignorant and partial Persons, and may prove a means to disprove, or confute the malicious sentiments of Extrajudicious and Illiterate Readers; but also in regard 'tis the only way we can produce to let the World know the Happiness and Pleasure we enjoy in the fraternity of such ingenious

A 4 Persons,

## *The Epistle*

Persons, we mean your  
selves.

And now here it wou'd  
be proper to particularize  
to the World, wherein  
the said Happiness and  
Pleasure consist; but we  
are afraid we shall be  
censur'd and thought  
(though without a cause)  
guilty of flattery and self  
praise, nevertheless to  
speak in general terms,  
'tis your unanimity, sobri-  
ety and ingenuity (toge-  
ther with the strict obser-  
vance

## *Dedictory.*

vance and performance of the civil Orders and constitutions whereby, our society is incorporated) which has been the cause of its being rendred meritorious and deserving of fame.

We are very well satisfied and assur'd that none of you are ignorant of the many scandalous and malicious alpersions that have been cast upon this Art; more than a man without a great deal of deliberation



*The Epistle, &c.*

deliberation is apprehensive of, and more than it has in reason deserv'd; for which reason it ought to be defended and guarded, by such who have a perfect and entire knowledge in the same, and will deal with impartiality therein, and for such an undertaking none are esteem'd or thought more fit than your selves, by

*Gentlemen,*

*Your most Affectionate Friends  
and Humble Servants.*

*J. D. C. M.*



THE  
P R E F A C E  
TO THE  
R E A D E R.

**M**Ultum in Parvo, is a saying that may very properly be applied in the case of this Book, which though short, yet contains full and Methodical Rules and Instructions, for a true Perfection and knowledge in this Art of Ringing,---the excellency whereof  
has

## The Preface

*has but lately been found out by the Laborious study of several Ingenious Persons, who have had a particular respect or regard for the same.*

*Towards the latter end of the Reign of his late Majesty King Charles the Second, was published a book intituled Campanalogia or the Art of Ringing, which name at the request and desire of the Bookseller, we have given to this Treatise with such other Addition in the Title Page hereof as was Necessary for the same, but we hope and are assured that the Courteous Reader will not think, that we have borrow'd any other thing but  
the*

## to the Reader.

the name, from so Unnecessary a Book as the same now is; tho' to speak with respect to all Ingenious Persons works, the same might when writ be of use and necessary for all Ringers, though it does chiefly consist of plain or Single Changes, because the same were then most of all Practis'd, but now this as well as all other Arts is by age and time improv'd, and instead of plain Changes there are Double, Triple, and Quadruple Changes Rung, which are far more Ingenious and Pleasant; however in many Parts of England, plain Changes are still in use, and therefore we have briefly said something in relation thereto

## The Preface

thereto, that we may please (if we can) every Person; but 'tis our request and desire to all that are practis'd in plain Changes, to suspend the practice thereof, and betake themselves to the practice of Double and Triple Changes, for the attaining whereof, we recommend them to the perusal and study of this Book, which consists of several Peals; which for their excellency have remain'd in use and Practice ever since they were made, as also of several new Peals Compos'd as well by our selves as Mr. John Patrick, who with great Care and Pains hath exercis'd his Ingenuity to the great Improvment of this Art.

Being

## to the Reader.

Being sensible of the many malicious Aspersions cast upon this exercise of Ringing, by partial and extrajudicious Persons, we have endeavour'd in the beginning hereof, by way of Objection and Answer to vindicate this Art, and falsifie the said Aspersions, which we hope will be supported by all who have a true sence and knowledge of the same.

What errors there may be (other than such as are committed by the Printer, which we are assured the Judicious and Courteous Reader will pass over) we submit to the Correction and Amendment of the  
wise



## The Preface, &c.

wise, not in the least doubting  
that he will condemn all for a few  
faults, withall hoping that he  
will suspend all partiality and keep  
to the old moral, Do as he would  
be done by.

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C A M

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# CAMPANALOGIA:

OR, THE

## Art of Ringing.

**A**MONGST other Diversions and Recreations practis'd by, and delightful to the Inhabitants of this Island; none is more diverting, ingenious, harmless, and healthful, than the *Art of Ringing*, used and practis'd with Discretion. And although it be esteem'd by the generality of People to be a mean and mechanical Exercise; yet were it to be duly weigh'd and consider'd by a Judicious and Impartial Person, it would be found to be very artful, and not to be attain'd to its highest Perfection, but by an ingenious and thoughtful Undertaker.

And therefore, since this Art is so generally esteem'd and look'd upon to be a mean and mechanical Exercise and Recreation, we think

it convenient and requisite by way of Preamble, to say somewhat in Opposition to what is offer'd and laid down by a Company of brainless and unthinking Persons, (who nevertheless think their Judgments and Knowledge to be universal) as Reasons and Arguments to manifest, and make out what they so irrationally and partially have spoke and utter'd in Disgrace and Disparagement of this Ingenious Art, which has so worthily deserved and merited the Praise and good Word of all People. And first,

*But* 'Tis objected against as mean and mechanical, because follow'd and practis'd by Persons whose Course of Lives (as reported) has been infamous; and also by Persons whose Subsistence for themselves and Families is gain'd by painful and hard Labour; and therefore not a fit and commendable Exercise and Recreation for one that has been genteely and handsomely brought up and educated.

To this we Answer, That there is no Exercise or Diversion whatsoever, follow'd and used by the Nobility and Gentry, either of this Nation or any other, but is used and follow'd by the Common Sort of People; and with whom they at some times never scruple, or think it in the least beneath their Dignity or Honour, to make them their Fellows, and Glass or Pot-Companions:

## *The Art of Ringing.*

3

Companions. Nor is this only done by such Nobility and Gentry, that are generally esteem'd to be Spend-thrifts and Prodigals; but also by such whose deep Judgments and Learning have rendred them famous Persons, and serviceable both to their King and Country.

The same Objection may be made against a Person of Quality, or Gentleman, whose delight is in playing on the Violin, or any other Common Instrument of Musick; because many poor and silly Fellows get a Livelihood by going from Door to Door, and House to House, playing on their unpleasing and tuneless Musick, and bear the scandalous Names of Scrapers or Fiddlers.

But as Musick is made more genteel and harmonious, by Conforts compos'd of the most skilful of Musicians; so is the *Art of Ringing* made the like, by a skilful number of Persons incorporated and united into a Society, sober, and made subject to Orders and Rules, consistent and coherent with Civility and genteel Behaviour. Nor can it be deny'd, but that several very eminent Masters of Musick have follow'd and diverted themselves much in Ringing, (having united and incorporated themselves into Societies) as an Exercise and Diversion by them esteem'd to be very harmonious

nious, and not in the least inferior to the Melody of the most Musical Instrument.

Again, it may be rationally supposed to be an extraordinary Madness and Folly in any one that shall disparage and despise any Ingenuity or Art, and that because 'tis Mechanical and Common; for by the same Example (if we do but rightly consider and weigh it) none are worthy the Knowledge and Practice of any Person that has been nobly and genteely bred; because there are none but what are (according to this Maxim) Mechanical and Common. Whereas on the contrary Art and Ingenuity ought to receive the greatest Encouragement that any Humane Creature is able to bestow; for nothing does more become a Man, or make him more esteem'd and respected, than an universal Knowledge in all Arts and Sciences.

Another Objection made against the Practice of this Art, is, That it withdraws and alienates Mens minds from the Business, by which they obtain and procure Subsistence for themselves and Families, making them Drunkards, neglective of their Occupations and Trades, and consequently the utter Ruin and Impoverishment of themselves, and all that depend upon, and receive a Livelihood and Maintenance from them.

In Answer to this, we say, That there is no Exercise or Diversion whatsoever, but will bring and reduce a Man to Necessity and Penury; (unless used with Discretion, Prudence, and Moderation) nay, though he has an Estate to support his Extravagancy and Profuseness for a time; yet in the end it concludes with such Estate spent, Imprisonment to himself, and want to his whole Family, as appears by daily Examples.

Whereas on the contrary, it never was known that any Person ever brought or reduced himself to Penury or Necessity by following this Exercise; but if at any time a Ringer has fail'd, and come to want, it will be found upon a strict and exact Examination of the matter, that his undoing was occasion'd by his following Gaming, Horse-races, Cockfighting, or some such mischief.

And now to shew that no Inconveniencies arise or happen to Mens Business and Employments, who exercise and recreate themselves in, and follow this Ingenious Art, (especially to such Men that are incorporated and united into a Society, and subject themselves to the sober and civil Rules and Orders thereof) the time usually set out and appointed, for the Practice and Exercise of this artful Diversion, is in an Evening when all sorts of People leave



off from their Business and Occupations, and disperse themselves some into one place, and some into another, to recreate themselves with some Diversion or Sport, thereby to sweeten the Care and Fatigue of a multiplicity of troublesome (and sometimes unprofitable) Business or Work. Therefore it may as well be thought, that those vacant and leisure hours Men spend in the Enjoyment of the Bottle, and their Friends, should be as hurtful as the vacant Hours spent in this Exercise. Again, if a Man's recreating and diverting himself in the practice of any other Exercise or Sport, is held and esteemed to be necessary, why should it not be in the practice of this, as well as any other, being (as we have said before) harmless diverting, and wholesome?

A third Objection made against *Ring*, is, That it is too laborious and painful to yield, or afford any Pleasure or Diversion, and occasions to great Heats and Sweatings, that a Man subjects himself to catch great Colds, whereby he endangers his Life, and begets more damage to his Person for Recovery of his Health, than he receives Pleasure and Satisfaction of Mind at the time of diverting himself with the Exercise and Practice of this Art.



## *The Art of Ringing.*

7

To answer this Objection, we declare, That we never have known or heard (though we have made it our business to enquire concerning this matter of the oldest of Ringers) that ever any Person in the least received any manner of damage to his Health by *Ringin*g; (unless rash and inconsiderate Persons that have been careless of themselves) but on the contrary 'tis well known by experience, to be a very healthful Exercise, moderately and with Discretion practis'd and us'd. For by moderate Sweating, all ill Humours, and corrupt Moistures are dispelled from the Body.

As to its being esteem'd and suppos'd laborious and painful, there is no such thing, for 'tis perfectly done by slight; else how could a Man be able to stand an Hour or two, (or more, as has been done) and be (as this Exercise requires) all the time in a continual motion. But this slight is to be obtain'd by practice, and by observing of Ancient Practitioners.

Thus having in short, and according to our Abilities, answer'd what Objections have been made against this ingenious and pleasant Exercise. We shall in the next place adventure to say somewhat in Praise and Commendation of this Art; whereby it will further appear, that the Aspersions cast upon it, are altogether ma-

licious, and utter'd without the least consideration imaginable.

The more ingenious, innocent, and recreative any Diversion or Exercise is, the more it ought, according to Reason, to be follow'd, esteem'd, and lov'd by those Persons, who (for the sake of their Health, or with intent to drive away melancholy Thoughts, and to sooth the worldly Cares and Crosses they often meet with) spend their vacant and leisure Hours in the exercise and practice of some Sport, Art, or Diversion; none whereof can be more suitable too, consistent, and coherent with the Nature of such Men, (would they but maturely consider it) than the Practice and Use of this Art. And that for these Reasons:

Because (as we have said, and (hope) made it appear before) it is a very wholesome and healthful Exercise: And though there are several other Exercises and Recreations, as Bowling, Tennis-Ball, Nine-Pins, and such like, (too tedious and long to be here inserted) that may work and stir the Body, and every of its Parts, as much as this Exercise does; yet they are not in the least to be compar'd to this, because not so artful, or requiring so thoughtful and ingenious an Head-piece to attain to the universal Knowledge of them, as this

Art

Art does. And again, because in any such Diversions and Exercises, nothing but a clashing, jarring, and unpleasing Noise or Sound is heard. Whereas on the contrary no Musick, Vocal or Instrumental, play'd on by the most skilful Master, can yield or afford a more pleasant and harmonious Sound or Melody, than Eight or Ten merry *Bells* (for so they are term'd) well rung by so many *Ringers*, well-skill'd and practis'd in this Art; wherefore, and for this last Reason, it must be allow'd to be a very proper and suitable Exercise for one who is apt to be Melancholy, to divert and withdraw his Thoughts from keeping Company with so hurtful and pernicious a Companion.

But least some Partial and Extrajudicious Reader (falsly thinking that (in what is before written) we have made some Reflections upon a Diversion or Exercise he takes delight in) should object against what we have said in praise of this Art, as being the only Exercise we take delight in, and therefore give it so good a Character (though not worthy of it); We must with Submission beg leave to acquaint him and others, (as a Proof to make good what we say) That there has been many noble and ingenious Persons, that have exprest and declar'd the same, and have been very ambitious

ambitious and desirous of attaining to a perfect knowledge in this Art; but never could have an opportunity of being acquainted with such Persons, by whose means they might be introduced into, and made a Member of some sober Society (Followers of this Art). And moreover at this time to our knowledge, there are several Learned and Eminent Persons, both Clergy and Laymen of good Estates, that are Members of several Societies of *Ringers*, inhabiting within this City, and think themselves very much respected, and highly favour'd, that they can arrive at, and attain to so great an Happiness and Honour.

Nor is it less esteem'd and admired by several Foreigners, whose Curiosities have engaged them to Travel through a many Parts of the World, acknowledging that in all Parts wherever they have been, the like is not known; and therefore they have (not improperly) named *England, The Ringing Island*.

This we hope will be further sufficient to satisfy the Judicious and Impartial Reader, that the scandalous Aspersions cast upon this Art, are erroneous and malicious; and that on the contrary it is a very delightful and pleasing Exercise, and worthy the knowledge of any Person whatsoever. And now we shall proceed to lay down an easy and exact Method,

thod, whereby the ingenious Practitioner with little Care and Pains may in a short time attain to the perfect knowledge of this Art. And,

The first Step he makes in this Art, is to learn perfectly to set a *Bell*, both back Stroke and fore, and to have it so much at his Command, as that he may be able to cut it down, either at hand (being the *Sally*) or back Stroke, and Set it again the next Pull, without which he cannot attain to any Perfection or Knowledge in this Art; and to make this the more easy to him, he must observe to keep the Rope tite or stiff, to stand upright to the *Bell*, not flitting his Feet, or using any ungenteel Posture, which in *Ringing* (as well as Dancing) is very ridiculous. When he is Master of this, he may then try to Ring one round in Three, Four, Five, or Six *Bells*, and afterwards in Eight or Ten. Wherein (as in all *Ringing*) the principal thing to be observed, is a true and exact *Compass*, (which in Musick is call'd Time) otherwise the *Ringing* becomes very unpleasing and disturbing to the Hearer, and may be compared to the nauseous Musick of a Country-Fidler playing before a Company of Boors and Peasants, going to the Celebration of a homely Country-Wedding.



*Compass* being (as we have said before) the most material thing to be observ'd in *Ring*ing; 'twill be requisite (in brief) to say somewhat in relation thereto.

According to the number and bigness of the *Bells* to be rung, the *Compass* ought to be high or low, for a large Peal of *Bells* require a lofty, and a small Peal a quick *Compass*. This depends upon the *Compass*, the *Treble* first fixes; therefore, and for this Reason, 'tis absolutely requisite that the most able Practitioner ought to Ring, and have the management of that *Bell* as a Guide and Path to the rest, when this is fixt, each of the other *Bells* must take care to keep an equal distance from the *Bell* preceeding that he Rings.

But for the better knowing of a true and exact *Compass*, the Practitioner ought to know how to beat *Time*, whereby he will reap the benefit and advantage of knowing the true distance that ought to be kept between *Bell* and *Bell*, according to the number and bigness of the *Bells*; and hereby it will appear that Three *Bells* are as long in going twice round, as Six are going twice round, Four as Eight, and Five as Ten. This ought to be well known too, and grounded in the Thoughts of an Undertaker of this Art, as the principal thing to be observed therein; for 'tis a smooth and exact *Compass* that



that makes the Ringing diverting and pleasing, as true time makes the Harmony in Mulick.

The next thing he may adventure to undertake, is the learning to Raise and Cease a *Bell* in *Peal*, which is not esteem'd to be one of the easiest parts of this Art; and we could wish with all our hearts, that it was more practis'd than it is, by the ancient and experienced *Ringers*, being very melodious and worthy any Mans pains to learn: For the attaining of which, he must be very attentive, how the *Bell* he Rings (with the rest) strikes, raising or ceasing it, as the *Bell* he follows does (provided that is Rung true). He must likewise be careful, when they lie under *Sally*, (for so 'tis term'd) to keep his *Bell* at so constant a *Pull*, as not pull harder one time than another, unless he finds the *Bell* dive upon him; but a *Bell* kept in good Order, and well Hung, is very seldom guilty of that fault, especially if Rung with a stiff Rope, and not check'd. 'Tis proper that *Bells* be raised as fast as may be, and not to strike till the second Sway. For the more easy effecting of this, 'tis needful to have two, three, or more (according as the bigness of the *Bell* requires) to help up with each of the great *Bells*, until they are about three parts up, where for a while, 'tis usual,

to have them lie still for some time; and then (the Person ringing the *Treble* giving notice to the rest by stamping with his Foot) to ascend and rise gradually, till they are raised to a set *Pull*, which they must be before any *Changes* can be Rung on them; which properly comes to be next treated of.

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### *Of Changes.*

**T**HE word (*Changes*) is very aptly and properly appli'd in this Case, for every *Bell* removes from it proper place, according as the *Change* made, requires, and so backward or forward, (or as term'd *up* and *down*) till the *Peal*, intended to be Rung, is ended. This is the most intricate and difficult thing to be learnt in this Art, which is likewise much improv'd by Practice; and though at first sight it seems very hard to be learnt, yet by practice and care 'tis soon rendred easy.

It will be very improper, and not in the least to our purpose to stuff this Treatise full of unnecessary and useless Examples of the Variation of Numbers, (thereby to shew the certainty of what shall be hereafter written) in regard they will but sicken and clog the Memory

mony of the Ingenious Practitioner, and make him out of heart and think he shall never attain to the Knowledge of this Art. But we shall make it our utmost Care to lay down every thing in as plain and easy a Method as possibly can be; and shall shew in their proper places, how many several *Changes* are to be Rung on such a Number of *Bells*; and also other Observations, Matters, and Things useful for attaining to the perfect Knowledge of what is hereby intended to be made known.

The first thing, that is requisite and necessary to be observed by the Young Practitioner in ringing of *Changes*, (and by which he will attain to a perfect Slight in this Art, and render the same less laborious and toilsome to him) is the Motion or Course of the *Bell* he Rings, whether it be gradually to ascend or descend, (that is *up* or *down*) or whether it be to make any *Stop* or *Dodge* in the middle, with any other *Bell*. If the *Bell* be to ascend or go up, it must be done by keeping it up, both at Hand and Backstroke, thereby to delay or prolong its striking until its due time and place; if to descend, it must be done by a very gentle and slight *Pull* and *Sally*, according as the bigness of the *Bell* requires; for by this means it descends the more easy, and without much

much pains in cutting it down, observing to stand as straight, and as upright as possible, not bending any part, except the Knee; for that it is that fatigues and tires the *Ringer*. If a *Stop* or *Dodge* is to be made, or a *Compass* to be led, the *Bell* ought to be kept with so stiff a Rope, and so much at the Practitioner's Command, that he may not stand any longer, or pull any sooner than in true *Time* or *Compass* is required; for otherwise, by the *Bells* standing too long in leading *Compass*, the rest are thrown and jumbled together, whereby *Claps* and *Clams* (so unpleasing to the Hearers) are occasion'd; and by too quick leading of the *Compass*, the *Bells* are scatter'd, and not subjected to any equal distance each from the other.

In Ringing of *Changes*, there is one *Bell* (commonly the *Treble*) term'd the *Hunt* (by reason of the constant Motion that is assign'd to it) by which the rest of the *Bells* are guided in their several and different Courses throughout all *Peals* whatsoever; and therefore 'tis not improper to compare the Person ringing the *Treble* to a Pilot, having the Management of a Ship, by whose Skill together with a Rudder, the Ship is safely steer'd from one Haven to another.

*Changes* consist of two kinds, different the one from the other; the one term'd *Plain* or *Single Changes*; the other *Double* and *Triple Changes*, or *Cross Peals*.

*Plain or Single Changes.*

**A**Nd they are so call'd, because no more than two *Bells* make a *Change*, at once, as for example, suppose these six Figures, 1 2 3 4 5 6, to be six *Bells* going round one after another in their proper places; now in making of a *Plain* or *Single Change*, only two of the *Bells* change their places, which may be any two that are next each other; as admitt first and second were to make a *Change* by going into each others place, then they would be in this Order 2 1 3 4 5 6.

But these *Plain* or *Single Changes* are so old, that they are scarce practis'd any where, because by ingenious and skilful practitioners, this Art is made far more melodious and easy by *Double* and *Triple Changes*, and therefore we shall forbear to make a long Discourse upon what is not needful or requisite, but shall only set down two or three *Peals* of *Plain Changes*, for the satisfaction of some particular Persons.



On two Bells there are no more 2 1  
then two Changes, to wit; 1 2

On three Bells there are twice as many more; for by multiplying two 1 2 3  
by three, (the additional figure) the 2 1 3  
Product is six, in Ringing whereof 2 3 1  
no Bell is peculiarly assign'd as an 3 2 1  
Hunt, because every Bell has one and 3 1 2  
the same Course, as may be here 1 3 2  
seen. 1 2 3

These six Changes may be likewise 1 2 3  
Rung another way, that is by hunting 1 3 2  
the Bell which lies behind (being 3 1 2  
third) first down; or (as it appears) 3 2 1  
by Ringing the said Changes back- 2 3 1  
wards, thus. 2 1 3  
1 2 3

On four Bells there are three times as many more Changes as there are on three, as appears by multiplying six by four, the Product whereof is Twenty four; in Ringing of which, the Treble (being the Hunt) is particularly to be observed, which first Hunts up behind, and there lies a whole pull, (which is the time the Bell is striking both Back stroke and fore) whilst the two foremost Bells make a Change, which done the Treble then Hunts down again to its proper place, where it leads a way a whole pull, whilst the two hindmost Bells make a Change, (commonly called an Extream) and after this manner

manner the other *Changes* are Ringed as compleat  
a four and twenty as by this Example appears.

1234	2134	3142	4123
2314	3412	4213	
2341	3421	4231	
3241	4321	2431	
3214	4312	2413	
3124	4132	2143	
1324	1432	1243	
1342	1423	1234	

On five Bells there are four times as many  
more *Changes* as there are on four, as appears by  
multiplying the Twenty four by the additional  
figure 5, the Product is 120. And the  
Course and Method of Ringing them is the  
same as before in the Four and twenty, with  
this further Observation, that there is besides  
the *Hunt* an *Half-hunt*; the *Treble* (which is in  
the subsequent *Peal* the whole *Hunt*) first *Hunts*  
through the rest of the Bells, and as soon as it  
is behind, the *Half-hunt* makes a *Change* with  
the Bell that is next it, moving one Bell higher,  
and then the *Treble Hunts* down again, and the  
*Half-hunt* makes another *Change*, then the *Tre-*  
*ble Hunts* up again and then the *Half-*  
*hunt* makes another *Change*, and then the  
*Treble Hunts* down to lead, by which time the  
*Half hunt* having finished its Course by *Hun-*  
*ting* over all the Bells, an *Extream* is then  
made,

made, by the two farthest *Extream Bells* from the *Half-bunt*, which is third and fourth; and so they proceed in the same Course till the next *Extream*, which happens every other time *Treble leads*.

*A Plain Sixscore.*

*Hunts II 2.*

12345

21245	41252	21453	51432	21534	31542
23145	43152	24153	54132	25134	35142
23415	43512	24513	54312	25314	35412
23451	43541	24531	54321	25341	35421
23451	43251	42531	54331	52341	35241
23415	43215	42513	54213	52314	35214
22145	43125	42153	54123	52134	35124
21245	41325	41253	51423	51234	31524
21345	41325	14253	15423	15234	13524
21345	14235	14523	15243	15324	13254
21425	21735	41523	51243	51324	31254
34125	42135	45123	52143	53124	32154
34215	42315	45213	52413	53214	32514
34251	42351	45231	52431	53241	32541
34521	42351	45321	52431	53421	23541
34512	24315	45312	25413	53412	23514
34152	24135	45132	25143	53142	23154
31452	21435	41532	21543	51342	21354
31452	12435	14532	12543	15342	12354
Ext.	Ext.	Ext.	Ext.	Ext.	Ext.
14352	12453	15432	12534	13542	12345

An *Extream* is a distinct Change from the rest, and made by the two farthest *Extream Bells* from the *Half-bunt*.

It may perhaps be wondred at by some, why we have not set down more large and methodical *Rules and Instructions* for the Ringing *Plain Changes*; but if duly consider'd we think (with Submission) 'tis not in the least necessary; not only because (as we have said before) they are almost out of practice every where; but also because *Cross Peals* are more easy and melodious; therefore we hope we shall be excused by the ingenious and knowing *Reader*, for the Omission that we have made, being as we conceive requisite, and assured that were he, or any other (whose genius leads them to the practice of Musick) to by a Collection of Songs or Tunes, that he would sooner chuse and have those that were lately compos'd than those which had been compos'd many Years. And now we shall proceed to give necessary *Directions and Instruction* for the Ringing of

*Double and Triple Changes or  
Cross-Peals.*

**W**E may suppose (and that with reason) that the Denomination given to these *Peals*, is from the *Bells* crossing each other in their several Motions or Courses some moving up and others down as the *Changes* made requi-

res, and for that four or six *Bells* (or more as the number will permit) do at one and the same time change from their proper places as thus 2, 1, 4, 3, 6, 5, so that by this means there are as many *Changes* at once going round of the *Bells*, (and yet reckon'd but one *Change*, because made at once Striking of each *Bell*) as in *Plain Changes* can be effected in three times going round.

But before we proceed any further 'twill be requisite to give this general Instruction; that in all *Peals* for the Young practitioners more easie learning we shall set down some few *Changes* as the Courses of such *Peals* will permit, thereby to acquaint him with a more easie Method of learning the same, advising him not to adventure on too long *Peals*, till he is thoroughly practis'd and perfect in such short ones.

No *Double Change* can be made on a less number of *Bells* than four (therefore that must be first treated of) and the shortest *Peal* that can be Rung on four is of Eight *Changes* being *Doubles* and *Singles*, and the first is *Double* and the next *Single*, and so by turns, till every *Bell* being hunted up and down comes into it's proper place again, which brings the *Bells* round. By this may be learnt the Method of Hunting a *Bell*; for as may be seen in the *Changes* here prickt down, every *Bell* Hunts gradually up and down,

and



# The Art of Ringing.

23

and the second and fourth *Hunt* down, and the *Treble* and *Third* up, and every *Bell* leads away no more than one whole *Pull*, or lies behind any more than one whole *Pull*.

1234	
2143	3412
2413	3142
4231	1324
4321	1234

When the practitioner is perfect in this he may then proceed to Ring the four and twenty *Doubles* and *Singles*, wherein must be observed that when the *Treble* leads the *Bell* in second's place lies a whole *Pull* and then leads, and the two *Bells* in third and fourth's places make a *Single Dodge* as by the subsequent figures may appear

1234		
2143	3124	4132
2413	3214	4312
4231	2341	3421
4321	2431	3241
3412	4213	2314
3142	4123	2134
1324	1432	1243
1342	1423	1234

Now the true Signification or meaning of a *Dodge* is this; any *Bell* that is coming down and is to make a *dodge*, must move up again one *Bell* higher, and any *Bell* that is going

up and is to make a dodge must come down one *Bell* lower, and then up or down as the *Course* of such *Bell* requires, as may be seen at the leading of the *Treble* at fore-stroke in the preceeding twenty four *Changes*, where the second is in thirds place coming down and the fourth behind, but at the next *Change* at Back-stroke, the fourth goes down into thirds place, and the second goes up behind: this may serve as an *Explanation* for dodging in all *Peals*.

There is another way of Ringing twenty four *Changes* Doubles and Singles on four *Bells*, which varies only from the former, that when *Treble* is behind, the *Bell* in third's place lies still a whole *Pull* and the *Bells* in *Treble* and second's places make a dodge, and then proceed again in their former *Course*, as may be here seen.

1234	1234	1234
2143	4132	3124
2413	4312	3214
4231	3421	2341
4123	4321	3241
4213	3412	2314
4123	3142	2134
41432	1324	1243
1423	1342	1234

In all *Peals* upon five *Bells*, there are two *Times*, to wit a whole and an *Half-time*, and for the practitioners more easy knowing, which

*Bells*

## The Art of Ringing.

25

*Bells* are the whole *Hunt* and the *Half-hunt* the figures representing such *Bells* are set down at the beginning of each *Peal*.

This *Peal* on five *Bells* is thirty, wherein every *Bell* has an *Hunting Course*, till the *Treble* has done leading, and then the *Bell* in third's place lies still, and the two hindmost *Bells* make a *Single Dodge*, and proceed in their *Hunting Course* again as in these thirty *Changes*.

### Hunts 1 2.

12345		
21354	21543	21435
23145	25134	24153
32415	52314	42513
34251	53241	45231
43521	35421	54321
45312	34512	53412
54132	43152	35142
51423	41325	31524
15243	14235	13254
12534	12453	12345

### Old Doubles.

**T**He *Changes* in this *Peal* are all double Except at the leading of the *Treble* and every *Bell* has a direct *Hunting Course* until *Treble* leads. And then the *Bells* in second and fifth's places lie still and the *Bells* in third and fourth's places

places make a *Single Dodge*, except when the *Extreams* are to be made, which is every time the second lyeth next to *Treble* and then the *Bells* in second and thirds places lie still, and the two hindmost *Bells* make a *dodge*. 'Tis called an *Extream Change*, by reason 'tis made only at such times, when such and such *Bells* are in such places, and is a different *Change* from the rest; of which *Change* 'tis requisite notice be given as the *Treble* is going to lead by him who Rings the *Half-hunt*, in saying *Extream*. The word *Extream* we must confess is the most proper Signification, in regard to the *Change*, but there is now and for some time has been a word call'd *Bob*, instead of *Extream* upon what account the word was *Chang'd*, we know not; yet nevertheless for fashion's sake we advise every one to use it.

Hunts: 1 2.

12345				
21435	32145	14253	15234	13245
24153	23415	12435	12543	12354
42513	24351	Extr.	Extr.	Extr.
45231	42531	12453	12534	12345
54321	45213	14235	15243	
53412	54123	14325	15423	
35142	51432	13452	14532	
31524	15342	13542	14352	
13254	15432			
13524				
31254	14523	15324	13425	

New Doubles.

**I**N this *Peal* the *Treble* only hath a direct *Hunting* Course, for when it moves up from leading, the two foremost *Bells* continue *Dodging* until the said *Treble* comes down again and displaceth them; every *Bell* that comes into thirds place lies there a whole *Pull*, and then goes up behind, Except the *Bell* that lies there when the *Treble* leaves leading, which moves down. Every *Bell* lies twice behind except when the *Treble* goes to lead and leaves leading; for when the *Treble* leads the *Bells* in second and fifth's places lie still and the *Bells* in third and fourths places make a *Single Dodge*. The *Extreams* or (as we shall henceforth call them) the *Bobs* are the same as in the former *Peal* of old doubles,

Hunts 1 2.

12345				
21354	35124	14253	15234	13245
23145	53214	12435	12543	
32415	35241	Bob	Bob	12354
23451	53421	12453	12534	Bob
32541	35412			12345
23514	53142	14235	15243	
32154	51324	14325	15423	
31245	15342			
13254	15432	13452	14532	
13524		13542	14352	
31542	14523	15324	13425	



## St. Dunstons Doubles.

**I**N this *Peal* the *Changes* are all Double, Except one *Single* every second time, the *Treble* leads, there being six of them in the *Peal* the *Treble* as before hath a direct *Hunting Course* and every time it goes to lead and leaves leading the *Bell* in third's place lies a whole *Pull*, and then goes down, and the two hindmost *Bells* Dodge till *Treble* parts them, Except at three of the *Single Changes*, and then the *Bell* in third's place goes up behind and the *Bell* in fourth's place comes down, but at other times they have an *Hunting Course*. When the *Treble* leads and the second is in its own place, it is a *Bob*, but when second is in third's place a *Single*.

Hunts. 1 2.

12345				
21354	45123	14532	13452	15342
23145	54213	12354	12543	12435
32415	52431	Bob	Bob	Bob
34251	25341	12534	12453	12345
43521	23514			
45312	32154	14352	13542	
54132	31245	13425	15324	
51423	13254	15243	14235	
15432	Single	Single	Single	
14523	13245	15234	14253	
41532	15423	14325	13524	

Reading-

Reading Doubles.

**T**He Treble has likewise in this Peal a direct Hunting Course and when it moves up up from leading the two foremost Bells Dodge, until it comes down again and parts them; whilst they Dodge every Bell that comes into third's place lies there a whole Pull, and then moves up behind again; but after the Dodging all the Bells go an hunting Course, until the dodging obstructs them. Every Bell lies twice behind, Except when the Treble leaves leading, and the second is next Bell to it, and then the Bell in third's place lies still and the two hindmost Bells Dodge; which happens in Course every twenty Changes; by this Method it will go sixty Changes and by making two Bobs it will go 120; the first Bob is made at the end of sixty Changes and the other at the last Treble leading of the Peal.

Hunts 1 2.

12345					
21354	13425	54132	12453	15342	15423
23145	14352	51423	14523	14253	14532
32415	41532	15243	15432	12435	13245
23451	45123	12534	13254	14325	Bob
32541	54213	15324	Bob	13452	12345
23514	45231	13542	12354	15234	
32154	54321	14235	13524	12543	
31245	45312				

## The Dream.

**T**He Treble in this Peal has a direct *Hunting* Course and when it leaveth the 5 and 4 places coming down the two Bells that are there continue Dodging till it cometh up and hinders them except when the two *Hunts* are together before, which happens in Course every forty *Changes*, the *Bobs* are every time the the *Half-hunt* is in second or third's place (if the whole *Hunt* lead) and then the Bells in 2 and 3 place lie still

*Hunts* 1 2.

12345					
21435	15324	14235	14352	Bob	14523
24153	51342	Bob	13425	12534	12354
42513	53124	14253	15243	15432	Bob
45231	35214	13524	Bob	14523	12345
54321	32541	15342	15234	13254	
53412	23451	12435	14325	Bob	
35142	24315	Bob	13452	13245	
31524	42135	12453	12543	15432	
13542	41253				

## Winwick Doubles.

**I**N this Peal first the two hindmost Bells Dodge (Except the whole *Hunt* hinders them) till the first *Single* is made, and then the two foremost

# The Art of Ringing.

31

most Bells Dodge Except the whole Hunt hinders them untill another Single be made, and so on successively throughout the whole Peal there are six Singles, made after the same manner as in St. Dunstan's Doubles.

12345					
21354	41532	31254	41523	51234	41325
23145	45123	32145	45132	52143	43152
32415	54213	23415	54312	25413	34512
34251	52431	32451	45321	24531	35421
43521	25341	23541	54231	42351	53241
45312	23514	32514	45213	43215	52314
54132	32154	23154	54123	34125	25134
51423	31245	21345	51432	31452	21543
15432	13254	12435	15342	13425	12534
14523	Bob	14253	Single	14352	Bob
	13524		15324		12354

So.

## Grandfire.

Every Bell in this Peal has a direct Hunting Course till the Treble leaves leading and then the Bell in third's place lies still a whole Pull and the hindmost Bells make a Single Dodge, and then proceed in the same Course again; and every time the Half-hunt Dodgeth behind, a Bob must then be made; at which the Bells that are in the third's place, when the Treble goes to lead

lead and leaves leading lie a whole *Pull*, and the two hindmost *Bells* make a Double *Dodge*, as may be seen in the following *Peal*. By this Method it will go sixty *Changes* and by making two *Singles* it will go 120; the *Singles* are made at the end of sixty *Changes*, and at the end of the *Peal*, the manner of making *Single* in this *Peal*, is the *Bell* in third's place lies there two whole *Pulls*, and the *Bell* in seconds place lies there a whole *Pull*.

## Hunts 1 5.

12345					
21354	21543	31452	31524	15432	15234
23145	25134	34125	35142	14523	12543
32415	52314	43215	53412	13254	Bob
34251	53241	42351	54321	Single	13452
43521	35421	24531	45231	13245	14325
45312	34512	25413	42513	15342	15423
54132	43152	52143	24153	13524	14532
51423	41325	51234	21435	13524	14532
15243	Bob	15324	Bob	Bob	12354
12434	14352	13542	12453	14253	Single
	13425		14235	12435	12345

This *Peal* of *Grandfire* may be Rung by making any *Bell* the *Hunt* at pleasure but then the first *Change* being made at *Back-stroke*, prevents the *Cutting Compass* (which otherwise will happen throughout the *Peal*) and then the *Bells* will come round, at *Fore-stroke*, but in the



# The Art of Ringing.

33

the following *Peal* wherein second is the whole *Hunt*, and fifth the *Half*) the first *Change* being a *Single* prevents the cutting *Compass*, and they come round at *Back-stroke*.

## Gravfire. Hunts 2 5.

12345				
<i>Single</i>	51324	14532	14253	<i>Bob</i>
12354	53142	15423	12435	24153
13245	35412	51243	<i>Bob</i>	21435
31425	34521	52134	21453	25134
34152	43251	25314	24135	21543
43512	42315	23541	25431	<i>Bob</i>
45321	<i>Bob</i>	32514	24513	23451
54231	24351	35241	23154	24315
52413	23415	53421	<i>Single</i>	25413
25143	32451	54312	23145	24531
21534	34215	45132	25341	13254
12543	43125	41523	23514	12345
15234	41352			

This *Peal*, as before appears, is in all respects, the same as the formers, only that second is the whole *Hunt* in this and *Treble* in that; therefore in Ringing this, the second must be observed as the *Treble* is in the other.

D

London

## London Doubles.

**I**N this *Peal*, the *Treble* hath an *Hunting* Course as in *Grandfire*, and when it goes to lead and leaves leading the *Bells* in third's place lie still a whole *Pull* successively, and the *Bells* behind *Dodge* till *Treble* parts them; Except at a *Bob*, and then the *Bell* that is in third's place, when *Treble* goes to lead *Hunts* up behind and makes a *Dodge*, and the *Bell* in fourth's place *Hunts* down; it differs from *Grandfire* only in this, that the *Treble* leadings in this are *Bobs* in that, and the *Bobs* in this are *Treble* leadings in that.

*Hunts* 1 5

12345					
21354	54213	35421	43215	13245	15234
23145	32431	53241	34125	15423	— —
32415	25341	52314	31452	14532	14325
34251	23514	25134	Bob	Bob	13452
43521	32154	21543	13542	Bob	— —
45312	31245	12534	15324	12435	12354
54132	Bob	15243	14235	14253	Single
51423	13425	51234	12453	13524	12345
15432	14352	52143	—	15342	—
14523	41325	25413	Single	—	—
41532	43152	24531	13254	Bob	—
45123	34512	42351	—	12543	—

Cambridge Delight.

**I**N this *Peal* the two hindmost *Bells* always *Dodge* till the whole *Hunt* parts them, when the whole *Hunt* leaves third's place *Hunting* up, the two foremost *Bells Dodge* till the *Half-hunt* hinders them, whose *Course* is the same with the *Course* of the *Half-hunt* in *Grandfire*, there are two *Singles* in this *Peal* made by the same rule as in *Grandfire*.

Hunts 2 4.

12345

13254	43521	15432	53241	24531	13154
31524	45312	14523	52314	25413	32145
13542	54132	41253	25341	52431	31254
31452	51423	42135	23514	54213	13524
34125	15243	24153	32541	45123	31542
43215	12534	21435	35214	41532	13452
42351	21543	12453	53124	14352	14323
24315	25134	14235	35142	13425	Gr.
23451	52143	41325	53412	31245	
32415	51234	43152	54321	32154	
34251	15324	34512	45231	23145	
51342	35421	42513	Single		

## Cambridge Delight another Way.

**I**N this *Peal* the two hindmost *Bells* always *Dodge* till the whole *Hunt* hinders them, as in the former *Peal*; when the *Half-hunt* leaves third's place *Hunting* up, the two foremost *Bells Dodge* till the whole *Hunt* hinders them. It differeth from the former *Peal* in this; that whereas in the former the *Bells* always begin to *Dodge* before, when the whole *Hunt* leaves third's place and are parted by the *Half-hunt*; and in this they begin to *Dodge* before, when the *Half-hunt* leaves third's place and are parted as well before as behind by the whole *Hunt*; and also that in this *Peal* the *Half-hunt* *Dodgeth* behind on the contrary *Stroke* to what it does in the former *Peal*; there are two *Singles* made likewise in this *Peal* by the same Rule as those in the proceeding *Peal*.

Hunts I 4.

12345					
21354	54132	54213	12534	42351	41325
23145	51423	52431	15243	43215	43152
32415	15432	25341	51234	34125	34512
34251	14523	52314	52143	31452	35421
43521	41532	25134	25413	13425	53241
45312	45123	21543	24531	14352	35214

53124

123  
213  
231  
324  
342

# The Art of Ringing.

37

53124	35142	24153	41253	32541	13254
51342	53412	21435	42135	23514	Single
15324	54321	12453	24315	32154	13245
13542	45231	14235	23451	31245	Exc.
31524	42513				

## Checker.

**I**N this Peal Treble is the whole Hunt and Tenor the Half-hunt for twenty Changes; and then Tenor is the whole Hunt and Treble the Half hunt for the next twenty, and so they Hunt, by turns, throughout the Peal. When the Treble is the whole Hunt the Bells behind always Dodge, except hinder'd by Treble; when Tenor is Whole Hunt, the Bells before always Dodge, except hinder'd by Tenor. When Treble is before and Tenor Dodging behind, a Single is made by the Tenor, and the Bell which Dodged with it; and when Tenor is behind and Treble Dodging before a Single is made by the Treble and the Bell then Dodging with it.

Hunts, 1 5.

12345					
21354	43521	15432	54213	32154	31254
23145	45312	14523	52431	31245	13524
32415	54132	41532	25341	13254	15342
34251	51423	45123	23514	13245	

D 3

51432



51432	24351	24513	35124	13425
54123	42315	25431	31542	14352
45213	24135	52341	13452	Gr.
42531	42153	53214	31425	

## St. Clement's Doubles.

**I**N this *Peal* the *Treble* has an *Hunting Course*, and as soon as it comes behind, the two foremost *Bells Dodge* till *Treble* parts them, whilst the *Bell* then happening in third's place lies still a whole *Peal* and then moves up behind. There are six *Singles* in this *Peal* made by the same Rule as in *St. Dunstan's Doubles*.

12345					
21435	51342	13245	15243	15324	12435
24153	53124	14532	Bob	13542	Single
42513	35214	15423	15234		12345
24531	53241		13452	14235	
42351	35421	12354	14325	Bob	
24315	53412	Single		14253	
42135	35142	12534			
41253	31524		12543		
14523	13254	13425	Single	15342	
15432	Bob	14352	12453	13524	

42513	24513	51342	53124	13245	42513
42351	24315	53124	53124	13245	24315
42135	24135	53214	53214	13245	24135
	24531	53214	53214	13245	24531

Westminster

Westminster Doubles.

THE Treble in this Peal has an *Hunting* Course, and every other time it leaves the third's place *Hunting* up, the two foremost Bells *Dodge* till it comes down and parts them, the Bells behind continue *Dodging* till Treble hinders them, except at a *Bob*, which is every time the second lyeth next the Treble (if Treble leads) and then the Bells in second and fifth's places lie still, and the Bells in third and fourth's places make a *Single Dodge*.

Hunts: I 5.

12345					
21354	31254	51423	41523	12534	25234
23145	32145	54132	45132	21543	Gr.
32415	23415	45312	54312	25134	
23451	24351	54321	53421	52314	
32541	42531	45231	35241	25341	
23514	45213	54213	32514	52431	
32154	54123	45123	23154	25413	
31245	51432	41532	21345	52143	
13254	15423	14523	12354	51234	
13245	15432	14532	Bob	15243	

## Gogmagog.

**I**N this Peal the Bells Hunt as in Grandfire, and this differs from that only in this, that there is not every other time a *Single Bob*, but instead of a *Single Bob* every other time there is a double *Bob*, so that only once in four times there is a *Single Bob*, but when Tenor is *Dodging* behind (and the *Treble* leads) there is always a *Single* made by it and the Bells which *Dodge* with it.

12345

21354	12534	14352	52134	43512	42351
23145	21543	Bob	51243	34152	24531
32415	25134	14325	15234	31425	25413
34251	52314	41352	12543	13452	52143
43521	53241	43125	21934	Bob	51234
45312	35421	34215	25143	13425	15324
54132	34512	32451	52413	31452	13542
51423	43152	23541	54231	34125	Etc.
15243	41325	25314	45321	43215	

## Antelope.

**I**N this Peal the Bells Hunt as in Grandfire; and when *Treble* is before a *Single* is always made by the Tenor and the Bells which follow it,

# The Art of Ringing.

41

it, the other *Bells* lying still a whole *Pull*, there are two *Doubles* made in this *Peal* at the same places and instead of the *Singles* in *Grand-fire*.

12345

21354	12543	13452	51234	42153	Bob
23145	21534	13425	15324	41235	13245
32415	25143	31452	13524	14253	—
34251	52413	34125	31542	14235	15423
43521	54231	43215	35124	-----	14523
45312	45321	42351	53214	15432	—
54132	43512	24531	52341	14532	Gr.
51423	34152	25413	25431	—	—
15243	31425	52143	24513	12354	—

## \*Jumping Doubles dodging before.

**I**N this *Peal* every *Change* is a jumping *Change* (in which one *Bells* jumps over two *Bells* at once) Except when the *Treble* is either behind or before, for then there is always a plain *Double* *Change* made, or else a *Single* at the end of sixty *Changes*; the *Treble* is the *Hunt* and the two foremost *Bells* always *Dodge* till the *Treble* hinders them; when the *Treble* is *Hunting* up, the jumping *Changes* are all made by the *Bell* in *Tenors* place jumping into third's. Except only that one when the *Treble* goes out of second's place

place into third's; for then the *Bell* in third's place jumps into *Treble's* place, where it *Dodges* with the *Bell* in seconds place till *Treble* parts them; when *Treble* is *Hunting* down every jumping *Change* is made by the *Bell* in third's place jumping into *Tenor's* place, except when it goes out of third's place into second's; for then the *Bell* in *Treble's* place jumps into third's place. And observe, that when *Treble* is going to lead the first time, the *Bell* in *Tenor's* place jumps into third's place, and the next time the *Bell* in third's place jumps into *Tenor's* place throughout the *Peal*. There are two *Singles* made after the same manner as in *Grand-fire*.

12345					
21534	23145	45213	42351	35421	34215
52145	32514	54321	24531	53214	43152
25314	23451	45231	42315	35142	31425
52431	32541	54312	24153	51324	13254
25341	23415	45123	41235	15432	Single
52413	32154	51432	14352	14523	13245
25134	21345	15243	13425	41352	Gr.
51243	12453	12534	31542	34125	
15324	14235	21453	53124	43512	
13542	41523	42135	35412	34251	
31254	54132	24513	53241	43521	

*Jumping*



*Jumping Doubles dodging behind.*

IN this *Peal* *Treble* is perfect *Hunt* as in the former. The two hindmost *Bells* always *Dodge* till *Treble* parts 'em, when *Treble* is *Hunting* up the *Bell* in third's place always jumps into *Treble's* place, Except only when *Treble* removes from out of third's place into fourth's, for then the *Bell* in *Tenor's* place jumps into third's; and observe that every second time *Treble* goes out of fourth's place into fifth's, the *Bell* in *Treble's* place jumps into third's: whereas at other times the *Bell* in third's place jumps into *Treble's*; when *Treble* leaves the fifth's place hunting down, the *Bell* in third's place jumps into *Treble's*; when it leaves fourth's place the *Bell* in third's place jumps into *Tenor's*; when it is either in second or third's place hunting down, the *Bell* in the *Treble's* place jumps into third's. There are two *Singles* likewise in this *Peal* made as in the former *Peal*.

12345					
31254	43512	31425	52413	21534	42315
23145	34125	43152	25134	52143	24153
32514	41352	34215	51243	25314	41235
53241	13425	42351	12534	32541	12453
35421	14352	24531	15243	23451	14235
					21453

21453	53124	53214	15432	34251	13245
42135	31542	25341	14523	23415	<i>Etc.</i>
24513	15324	52431	51432	32154	
45231	13542	45213	45123	21345	
54321	51324	54132	54312	13254	
35412	35142	41523	43521	<i>Single</i>	

### *Alteration of Hunts, old Doubles Way.*

**T**HE *Hunting Course* in this *Peal*, is the same as in *old Doubles* with one *Hunt*. Only in this you must observe, that every time the *Hunt* comes to lead (except at a *Bob* or a *Single*) an alteration is then made in the *Hunt* by this Method; for the first *Treble* leading of the *Peal*, *Treble* is the *Hunt*, and as soon as it cometh to lead, that *Bell* which giveth it place (which is the third) makes a *dodge* with the *Treble* by cutting *Compa's* at *Back-stroke*, then the *Treble* leads a *whole Pull*, and the third goes *Hunt* in the *Treble's* place; now the third having *Hunted* a leading, the same alteration should be made between it and the *Bell* which giveth it place; but a *Single* being then to be made the third leads a *whole Pull*, and the *Bells* in the seconds and thirds places lye still, and the two hind *Bells* make a *Single dodge*, and the third continues *Hunt* until the next leading, where the same alteration is made.

be.

between third and Treble as at the first leading ; and the Treble resumes its *Hunting Course* again until the next leading which being a *Bob* it leads a *whole Pull* and the *Bells* in second and Fifths places lie still, and the *Bells* in third and fourths places make a *dodge*, and the Treble continues *Hunt* until the next leading, when the same Alteration is to be made between Treble and Fifths, as at the first leading was between Treble and Third ; and this Method must be continued throughout the *Peal* and observe that the *Singles* and *Bobs* are in Course every time the *Hunt* leads and the second lyeth next it and two leadings distance between a *Single* and a *Bob*, at every *Single* the Treble always lies in the third's place and at every *Bob* leads *Compass* as in the following Example ( where for the better Instruction of the Practitioner the *Peal* is prick'd at length) will more plainly appear.

12345					
21435	13254	25341	45213	34152	Bob
24153	31245	23514	54123	43512	12534
42513	13425	32154	51432	45321	21354
45231	14352	Single	15342	54231	23145
54321	41532	32145	13524	52413	32415
53412	45123	23415	31254	25143	34251
35142	54213	24351	13245	21534	43521
31524	52431	42531	31425	12354	45312
					54132

54132	52134	34521	43152	42153	53421
51423	25314	43251	41325	24513	35241
15243	23541	42315	14235	25431	32514
51234	32451	24135	41253	52341	23154
15324	34215	21453	14523	53214	21345
13542	43125	12543	15432	35124	12435
31452	41352	Bob	51342	31542	Bob
34125	14532	12453	53124	13452	12345
43215	15423	21543	35214	14325	
42351	51243	25134	32541	41235	
24531	15234	52314	23451	14253	
25413	51324	53241	24315	41523	
52143	53142	35421	42135	45132	
Single	35412	34512	Single	54312	

## Crambo.

**I**N this *Peal* every *Bell* hath one and the same *Course*, there being no proper hunt or *Half-hunt* therein; but the *Method* to be observed in *Ringing* it, is this, the three foremost *Bells* go the *fixes*, and the two hind *Bells* *dodge* all the time, now when the three foremost *Bells* have finisht their *Course* of the *six Changes* a parting *Change* must then be made, by *Hunting* that *Bell* up behind to *dodge*, which first took lead of the *Treble*, and that *Bell* down that was first behind; which being done, the three first *Bells* go the *six Changes* again, and the two *Bells* behind continue *dodging* as before, until

until the next parting *Change*, which must be made after the same manner as the former, the first parting *Change* in the *Peal* prick'd down here, is made the third *Change*, by the *Treble* parting the fourth and Fifts, and then the *Treble* and *Fifth* *dodge*, till the second, third and fourth go the *six Changes* on three *Bells*; then another parting *Change* is made by the second parting, the *Treble* and *Fifth*, and the Third, Fourth and Fifth go the *six Changes*, and the *Treble* and *second* *dodge* as before, till the next parting *Change*; which Course must be continued throughout the *Peal*; and observe that on *six Changes* the *Bells* cut *Compass* before, and the other they do not; there are two *Singles* made after the same manner as in *Grandfine* the first *single* is made the Fifth time, the *Treble* leads a whole *Pull*, and the last *single* at the same distance as the first, which concludes the *Peal*.

12345					
21354	43521	31452	42135	51342	12534
23145	45312	13425	41235	53124	21543
32415	54321	14352	14523	35142	25134
23451	53412	41325	41582	31524	21453
24315	35421	14235	45123	13542	25413
42351	34512	14453	54131	13324	24531
43215	43152	21435	51423	51234	42513
34251	34125	24153	15432	15243	45234
					54213



54213	31254	24513	14532	15342	52341
52431	32145	42153	41523	13524	25314
25341	23415	24135	45132	31542	23541
52314	32451	21453	54123	35124	32514
53241	34215	12435	51432	53142	23154
35214	43251	14253	15423	35412	21345
32541	42315	41235	51243	34521	12354
23514	24351	14325	52134	43512	Single
32154	42531	13452	25143	45321	12345
31245	45213	31425	21534	54312	
13254	54231	34152	12543	53421	
Single	52413	43125	15234	35241	
43245	25431	41352	51324	53214	

These *Peals* upon *five Bells* being several of them new, and the rest the most musical and best extant we think them sufficient for to satisfie any reasonable persons. The next thing in Course to be treated of, is *Peals* upon *six Bells*; but before we proceed to them it will be very necessary to make some few but general Observations; for the more easy and effectual guiding the learner therein.

### Of *Peals* on *six Bells*.

**N**OW upon *Six Bells* there are 720 *Changes*, as will very plainly appear, if you multiply the 120 upon 5 by the additional figure 6, the product will be 720, the true number of *Changes*

*Changes* on Six Bells, which *Changes* are to be prickt. (according to modern Computation) 720 several ways and no more.

These 720 *Changes* may be divided into several *parts* or *Peals*, as you please, as 144 the one Fifth 180. the one fourth parts of the whole, or 360 the one half, in which the chief things to be observed are the *Hunts*, which are three, term'd the *whole hunt*, the *Half-hunt* and the *quarter hunt*; and the figures on the top of each *Peal*, relate thereunto; as on the top of *Grandfire Bob* you see 1 6 4, that is, *Treble* the *Whole-hunt*, 6 the *Half-hunt*, and 4 the *Quarter-hunt*, and so in the rest. Now he that Ringeth the *Half-hunt* (by observing the following directions that is givento each *Peal* (may easiely give notice of the *Bob Changes*, which must be just as the *Whole-hunt* goeth to lead at the *fore-stroke* (the *Bob Change* in all *Peals* upon Six Bells being made at *Back-stroke*) by saying *Bob*.

But least the shortest of these *Peals* should at first seem too tedious, and the making of *Bobs* too difficult for the learner to adventure upon at first sight, (as we may very reasonably suppose they will) we shall therefore insert the principle or Course only of one or two *Peals*, that by his being thoroughly perfect therein, he may with the more ease and less difficulty, gain an insight in making of a *Bob Change*: and first for the Course of.

E

*Grandfire*

*Grandfire Bob commonly called plain Bob.*

**I**N Ringing of which there is two Methods or Rules to be observed, whereby this *Peal* may be Rung; and the first is by the meeting of the *Treble* as it *Hunteth* down from behind, that is any *Bell* that meets the *Treble* in *Fifths* place and it in *Sixth* lies a *Pull* behind, and then *Hunts* down into the *thirds* place, where it makes a *dodge* with the *Bell* that is in the *fourths* place, by moving up again into the *fourths* place, and the *Bell* in *fourths* down into *thirds*, and then proceed in the Course as they were going (before the *dodge*) be it up or down; any *Bell* that meets the *Treble* in *fourths* place and it in *Fifths*, goeth behind, where it lies a *Whole-Pull*, and then moves down into the *Fifth's* place, and *dodgeth* back again into the *Sixth's* place; and then *Hunts* down to lead any *Bell* that meets the *Treble* in *third's* place and it in *fourths*; as soon as it cometh behind it makes a *dodge* back again into the *Fifths* place, and then comes behind again, and lies there a *Whole Pull* before it *Hunts* down; and any *Bell* that meets the *Treble* in *second's* place, and it in *third's*, as soon as it comes into the *fourth's* place it *dodgeth* back again into the *third's*

third's, and then *Hunts* directly up behind, where it lies a *Whole Pull* before it moves down again; and any *Bell* from which the *Treble* takes the lead, lies next the *Treble* a *Whole Pull* and then leads again; and this is the *Course* of Ringing this *Peal* by meeting of the *Treble*. The other way of Ringing it is a far more short and easie Method, but it is practice only that must perfect the *Ringer* therein, and that is by *Hunting* your *Bell* up or down as the *Course* of the *Bell* you Ring requires; till such time as the *Treble* leads, and then the *Bell* in second's place lyeth still, and the *Bells* in Third, Fourth, Fifth, and Sixth places make a *Single dodge*, and proceed in the same *Course* as they were going before such *dodge* was made; and this is the other way of Ringing it, as by the following figures may more largely be seen; this *Peal* being the true grounds of all other *Peals*, (and in musick not in the least inferior to any) we do therefore advise all Practitioners to be thoroughly perfect therein as the only means whereby they may with a little practice attain to the true knowledge and understanding of any other.

*The Course of Grandfire or plain Bob.*

<u>123456</u>				
214365	321456	352146	536214	563421
241635	234165	325416	352641	586241
426153	243615	234561	325461	352614
462513	426351	243651	234516	325164
645231	462531	426315	243156	231546
654321	645213	462135	421365	213456
563412	654123	641253	412635	124365
536142	561432	614523	146253	<u>123456</u>
351624	516342	165432	142635	
315264	153624	164523	416253	
132546	156342	615432	461523	
135264	513624	651342	645132	
312546	531264	563124	654312	

*The Course of College Single Bob.*

**T**HERE is but one Method to be observed in the Ringing of this *Peal*, and that is by meeting the *Treble* only; any two *Bells* that the *Treble* (when it comes from behind) leaves in the Fifth and the Sixth places, those two *Bells* continue *dodging*, till such time as the *Treble* comes up again and parts them, and every *Bell* that meets the *Treble* under the Fourths place, that is the *Treble* in Third's, and so



# The Art of Ringing.

53

in Fourth's, the *Treble* in Second's, and it in Third's, any such *Be* also meeting the *Treble*, goeth no higher than into the Fourth's place, where it lieth a *Whole Pull*, and then moves down to lead, and this is the Course of this *Peal* as by the following figures may be seen.

123456				
214365	361542	254136	364512	254631
241356	635124	245316	635421	245361
423165	653214	423561	653241	423516
432615	562341	432651	562314	432156
346251	526431	346215	526134	341265
364521	254613	364125	251643	314256
635412	245163	631452	215634	132465
653142	421536	613425	126543	123456
561324	412563	164352	162534	
516342	145236	146325	615243	
153624	154263	413652	651234	
135642	512436	431625	562143	
316524	521463	346152	526413	

Now the Practitioner being thoroughly perfect in the Courses of these two *Peals*, he may then proceed to 180 or 360 of *Grandfire Bob* as followeth.

The Course of the 180 is the same in all respects as the foregoing Course of this *Peal*, except when a *Bob* is to be made, and then the *Bell* in the Fourth's place lieth still, and the *Bell*

in Second's place *Hunts* directly up behind: the *Bobs* are to be made every time the half and quarter *Hunts* (which in the following *Peal* is the Sixth and Fourth) *Dodgeth* behind, and Three *Bobs* finish the *Peal*.

*Grandfire Bob, 180.*

*Hunts 1 6 4.*

123456			
214365	132654	125634	153624
241635	136245	126543	156342
426153	163425	162453	165432
462513	164352	164235	164523
645231	146532	146325	146253
654321	145623	143652	142635
563412	154263	134562	124365
536142	152436	135426	123456
351624	125346	153246	
315264	Bob	Bob	
132546	152364	135264	
Bob			
123564			

*Having before set down the whole Course at length, we have here only inserted the Treble leadings.*

To Ring an Eightenscore of this *Peal* every time the Half *Hunt Dodgeth* behind, a *Bob* must then be made, except the Quarter *Hunt Dodgeth* with

# The Art of Ringing.

55

with it, and then not, as in the following Eighteen score may be seen.

Hunts 1 6 4. Grandfire Bob 360.

123456				
214365	135264	142356	134256	154326
241635	153624	124536	Bob	Bob
426153	156342	Bob	143265	145362
462513	165432	142563	125463	132465
645231	164523	153462	Bob	Bob
654321	146253	Bob	152436	123456
563412	142635	135426	154263	
536142	124365	134562	Bob	
351624	Bob	Bob	145236	
315264		143526		
132546				

If for 720 the Singles must be made thus.

132465	123465
First Single	Last Single
132456	123456

In all Peals upon Six Bells, that require Singles to be made to carry on the Peal 720 Changes, the most usual way now in Practice, is, to make one at the end of the Eighteen-score, and the other at the end of the next Eighteen-score, so that the last single Change Compleats the Peal.

And this further Observation, may be made, that in all Peals, where the Bell in Seconds place lies still at a Dodge, the Bell in Fourths place lies

E 4

still

still at a *Bob*. and that the *Half Hunt* is always behind and out of the *Bob*, and doth not alter its Course neither in *Dodge* nor *Bob*, when she is behind.

### College Single Bob, 144.

Hunts 1 6 5.

**T**O Ring 144 of this *Peal*, every time the *Treble* leads, a *Bob* must then be made, except when the *Half* and *Quarter-hunts Dodge* together behind, which happens in Course every Fourth leading of the *Treble*, and Nine *Bobs* finish the *Peal*, as in this prickt down; at a *Bob* the *Bell* in Fourths place *Hunts* up, and the *Bell* in Fifths comes down, as may be here seen;

123456				
214365	153624	124365	<i>Bob</i>	156423
241356	<i>Bob</i>	142356	163542	126354
4/ 23165	135264	152643	143265	<i>Bob</i>
32615	165432	<i>Bob</i>	134256	162534
346251	<i>Bob</i>	125463	154632	132465
364521	156342	165324	<i>Bob</i>	123456
635412	146253	<i>Bob</i>	145362	
653142	<i>Bob</i>	156234	165243	
561324	164523	136452	<i>Bob</i>	
516342				

To

To Ring 180. of this *Peal*, every time the *Half-hunt* makes a *Change* next the *Whole-hunt*, a *Bob* must then be made, and three *Bobs* Conclude the *Peal*.

To Ring 360 of this *Peal*, every time the *Half Hunt* is in Seconds Place, going up, or in Thirds Place coming down, a *Bob* must then be made, except the *Quarter Hunt* be in one of those places with it and then not as by the following *Eighteen-score* may be seen.

*Hunts* 1 3 5.

123456				
214365	135642	143526	Bob	136452
241356	145236	Bob	132654	132546
423165	154263	134256	134562	Bob
432615	164352	136524	Bob	123456
346251	146325	Bob	143652	
364521	126543	163254	134625	
635412	162534	136245	Bob	
653142	132465	Bob	143265	
561324	Bob	163425	163542	
516342	123645	123564	Bob	
153624				

If for 720 the *Single*, thus.

132546	123546
<i>First Single</i>	<i>Last Single</i>
132456	123456



*Jp*

London Single Bob.

Hunts 1 3 5.

**I**N this *Peal* the *Treble* is *Hunt*, and when it comes from behind the *Two Bells*, that it leaves in the *Sixth* and *Fifths* Places, Continue *Dodging*, till the *Treble* comes to lead, and then the *Bell* in *fourths* place goes up, and the *Bell* in *fifths* comes down (as at a *College Single Bob*;) but at a *Bob*, the *Bell* in *fourths* place lies still, and the *two Bells* behind continue *Dodging* till the *Treble* parts them; the *Method* for the *Bobs* is the same as in the foregoing *Peal*.

123456				
214365	235146	365214	123564	136245
241356	253416	632541	163425	Bob
423165	524361	623451	Bob	163254
432615	542631	264315	136452	136524
346251	456213	246135	134625	Bob
364521	465123	421653	Bob	163542
635412	641532	412635	143652	143265
653142	614523	146253	143562	Bob
361324	165432	164523	Bob	134256
516342	156342	124365	143526	132465
153624	513624	142635	123645	Bob
135264	531642	132546	Bob	123456
312546	356124	Bob		
321564			132654	

*Stately in Row*

Fo

For 720 the Singles.

132465  
First Single.  
132456

123465  
Last Single.  
123456

Oxford Single Bob, 360.

Hunts 1 6 4.

THE Course of this *Peal*, is the same as the foregoing *Peal*, till the leading of the *Treble*, and then the *Bell* in Seconds Place lies still a whole Pull, and the *Bells* in Third and Fourths Places make a *Single Dodge*, except at a *Bob*, and then the *Bell* in Fourths Place lies still a whole Pull, and then moves down to Lead, and the *Bell* in Seconds Place moves up into Fourths Place, and every time the *Half Hunt Dodgeth* behind, a *Bob* must be made, except the *Quarter Hunt Dodge* with it, and then not.

123456

<u>123456</u>				
214365	146253	136452	134256	145362
241356	142635	134625	Bob.	132465
423165	132546	124536	143265	Bob.
432615	135264	Bob.	125463	<u>123456</u>
546251	165432	142563	Bob.	
364521	164523	153462	152436	
635412	124365	Bob.	154263	
653142	bob.	135426	Bob.	
561324	142356	134562	145236	
516342	152643	Bob.	154326	
153624	156234	143526	Bob.	
156342				

for 720 the Singles.

132465	123465
First single.	Last single.
132456	123456.

### Grandfire Double Bob.

Hunts 1 3 4.

**I**N this *Peal* the *Treble* hath a direct *Hunting* Course, and as soon as it Moves out of the Fourths place, the bells in first and second places Dodge until it comes down and parts them; as soon as the *Treble* comes behind, the Bell in Fifths place lies still a whole pull, and the

*Bells*

# 61 and 70 a like

## The Art of Ringing.

61

Bells in Third and Fourths make a *Single Dodge* then the *Bell* in Fifths Place goes behind, where it lies a whole Pull, and then moves down to Lead, every *Bell* that comes from behind, when the *Bells* are *Dodging* before, goes no Lower than into the Thirds place, where it lies a whole Pull, and then moves up again; when the *Treble* leads, the *Bell* in fourths place goes up, and the *Bell* in fifths comes down, except at a *Bob*, and then the *Bell* in fourths place lies still, and the *Bells* behind make a *Single Dodge*; and every time the *Half-hunt* is in second or thirds place, a *Bob* must then be made, except the *Quarter hunt* be in one of those places, and then not.

*JP*

123456					
214365	164352	Bob	135462	Bob	123456
241635	146532	135264	Bob		
426153	156423	136452	153426		
246513	165243	Bob	135642		For 720 the
425631	125634	163425	Bob		Singles
246531	152364	136245	153624		132465
425613	132546	Bob	163542		First Single.
245163	Bob	163254	Bob		132456
421536	123564	123645	136524		132465
412356	153246	Bob	132465		Last Single.
148265					123456
134625		132654			

College

## College Double Bob.

Hunts 1 3 5.

**T**HE Course of this *Peal* is the same as *College Single*, only in this it differs, That when the *Treble* moves up from leading, the *Bells* in first and second places *Dodge*, and continue *Dodging* till it comes down again and parts them; every *Bell* that comes into the thirds place, when the *Bells* are *Dodging* before, lies there a *Whole-pull* and then moves up again. The *Bobs* are made after the same manner as in *College Single*, and called by the same Rule.

123456				
214365	145236	Bob	Bob	Bob
241356	154263	123645	163425	143265
423165	126543	143526	123564	163542
243615	162534	Bob	Bob	Bob
426351	153624	134256	132654	136452
246531	135642	136524	134562	132546
425613	164352	Bob	Bob	Bob
245163	146325	163254	143652	123456
421536	132465	136245	134625	

The *Singles* for the 720 are the same as in *College Single*.



London Double Bob. *J P*

Hunts 1 3 5.

IN this Peal the Treble is Hunt, and when it moves up from leading, the two foremost Bells continue Dodging till it comes down and parts them; the Bell that comes into thirds place when the Treble is Hunting up, lies there a Whole-pull, and when the Treble is behind, the Bell in fifths place lies still, and the Bells in third and fourths places make a single Dodge: when Treble leads, the Bell in fourths place goes up and the Bell in fifths comes down, except at a Bob and then the Bell in fourth place lies still as in London Single Bob, the Bobs are the same and call'd by the same Rule as in that.

123456				
214365	146253	Bob	Bob	Bob
241356	164523	123564	143526	163542
423165	153624	163425	123645	143265
243615	135264	Bob	Bob	Bob
426351	124365	136452	132654	134256
243651	142635	136425	136245	132465
426315	165432	Bob	Bob	Bob
246135	156342	143652	163254	123456
421653	132546	134562	136524	
412635				

The Singles are the same as in London Single Bob.

Oxford

## Oxford Double Bob.

Hunts 1 6 4.

**T**HE Course of this *Peal* is the same as *Oxford Single*, only that the *Bells* before *Dodge* till *Treble* parts them; and when the *Treble* is behind, the *Bell* in fifts place lies still, and the *Bells* in third and fourths places make a *Single Dodge*; then the *Bell* in fifts place goes behind, and the *Treble Hunts* down to lead. The *Bobs* are made after the same manner, and called by the same Rule, as in *Oxford Single*.

123456				
214365	146253	Bob	Bob	Bob
241356	142635	142356	143526	145236
423165	165432	124536	134256	154326
243615	164523	Bob	Bob	Bob
426351	153624	142563	143265	145362
243651	156342	153426	125463	132465
426315	132546	Bob	Bob	Bob
246135	135264	135426	152436	123456
421653	124365	134562	154263	
412635				

For 720 the *Singles* are the same as in *Oxford Single*.

Court Bob.

Hunts 1 3 5

**I**N this *Real* the Treble hath a plain *Hunting* Course, and when it moves up from leading, the Bell in thirds place lies still, and the two foremost Bells make a *Single Dodge*; then the Bell in thirds place moves up, and likewise the Bell that first took the lead of the Treble, and the Bell which *Dodged* with it leads a *Whole-pull*, and then makes another *Single Dodge* with the next Bell that comes down to it. The Bell that happens in thirds place lying still, as before, and then moves up into the fourths place to make room for the Treble; when the Treble leads, the Bell in fourths place goes up behind, and the Bell in fifths place comes down (as at a *College Single Bob*) except at a *Bob* and then the Bell in fourths place lies still, and the two hindmost Bells *Dodge* till Treble parts them, as at a *College Single Treble Leading*, and every time the *Half-hunt* is in second or thirds place, a *Bob* must be made, except the *Quarter-hunt* be in one of those places with it and then not.

123456				
214365	165432	Bob	Bob	Bob
241356	156342	123564	143526	163542
423165	124365	163425	123645	143265
243615	142635	Bob	Bob	Bob
426351	153624	136452	132654	134256
462531	135264	134625	136245	132465
645213	146253	Bob	Bob	Bob
465123	164523	143652	163254	123456
641532	132546	134562	136524	
614523				

For 720 the Singles are the same as in the foregoing Peal.

and then makes another Sing. The Bell that comes down to it. The Bell that happens in third place lying still, as below, and then moves up into the fourth place to make room for the Table; when the Table leads, the Bell in fourth place goes up behind, and the Bell in third place comes down (as at a College Single Bob) except at a Bob and then the Bell in fourth place lies still, and the two hindmost Bells Dodge till Table parts them as at a College Single Table Leading, and every time the Half part is in second or third place, a Bob must be made, except the Quarter, be in one of those places with it and

New

# New London Peals upon Six BELLS.

Compos'd by John Patrick and others.

London Delight.

Hunts 1 3 5.

**I**N this Peal the Treble hath a direct Hunting Course, and when it lies behind, the Bell in fifth's place lies still a Whole-pull, and the other four make a Single Dodge, then the Bell in fifth's place goes behind, and all the Bells go a Hunting Course, till Treble leads, and then the Bell in fourth's place lies still, and the two hind Bells make a Single Dodge, (and then proceed in their Course as before; (at a Bob, the Bell in fourth's place goes up, and the Bell in fifth's comes down; and every time the Half-hunt is in second and third's place, (if the Whole-hunt lead) a Bob must then be made, except the Quarter-hunt be in one of those places, and then not.





123456				
214365	135642	143526	Bob	136452
241635	145236	Bob	132654	132546
426153	154263	134256	134562	Bob
462513	164352	136524	Bob	123456
645231	146325	Bob	143652	For 720
462531	126543	163254	134625	the Singles
645213	162534	136245	Bob	132546
654123	132465	Bob	143265	132456
561432	Bob	163425	163542	123546
516342		123564	Bob	123456
153624	123645			

### London New Bob.

Hunts 1 5 6.

**E**VERY Bell in this Peal hath a Hunting Course, till the Treble comes behind, then the Bell in third's place lies still, and the 2 foremost Bells make a Single Dodge; then the Bell in third's place moves up, and all the Bells go a Hunting Course, till Treble leads, and then the Bell in seconds place lies still, and the other four make a Single Dodge; except at a Bob, and then the Bell in fourth's place lies still, and the Bell in second's place Hunts up, and the two hindmost Bells make a Dodge; and every time the

# The Art of Ringing.

69

the *Half-hunt* *Dodges* behind, a *bob* must be made except the *Quarter-hunt* *Dodge* with it, and then not.

*Jp*

123456				
214365	<i>Bob</i>	134625	163425	145236
241645	123645	162345	<i>Bob</i>	142563
426153	164235	<i>Bob</i>	136452	124365
462513	<i>Bob</i>	126354	163254	123456
645231	146253	162453	<i>Bob</i>	For 720
465321	164352	<i>Bob</i>	136245	the <i>Singles</i>
643512	<i>Bob</i>	126435	163542	124365
634152	146325	124653	165324	124356
361425	143652	<i>Bob</i>	136423	123465
316245	<i>Bob</i>	142635	154632	123456
132654				

## Lancashire Delight.

Hunts 1 3 4

IN this *Peal* the *Treble* is *Hunt*, and when it moves up from leading the *Bells* before *Dodge* till it comes and parts them; and every *Bell* that comes into the third's place, goes no lower but lies there a *Whole-Pull*, and then moves up (except the *Bell* that comes there when *Treble* leads, moves down) when the *Treble* is behind, the *Bell* in fifth's place lies still

F 3

a

70

*Campanalogia: Or,*

a *Whole-pull*, and the *Bells* in third and fourths place make a *Single Dodge*; when the *Treble* leads the *Bell* in fourths place goes up, and the *Bell* in fifth's comes down, except at a *Bob*, and then the *Bell* in fourth's place lies still, and the *Bells* behind make a *Single Dodge*: every time the *Half-bunt* is in second or thirds place, except the *Quarter-bunt* be with it, and then not.

*Sp*

123456				
214365	146532	Bob	Bob	For 720
241635	156423	163425	153624	the Singles
426153	165243	136245	163542	132465
246513	125634	Bob	Bob	132456
425631	152364	163254	136524	123465
246531	132546	123645	132465	123456
425613	Bob	Bob	Bob	
245163	123564	132654	123456	
421536	153246	135426		
412356	Bob	Bob		
143265	135264	153462		
134625	136452	135642		
164352				

*Dunstable Bob.*

*Hunts* 1 5 6.

**I**N this *Peal* the *Treble* only, hath a plain *Hunting Course*, for as soon as it comes behind, the *Bell* in fifth's place lies still a *Whole-pull*

# The Art of Ringing.

71

*pull*, and the other four make a *Single Dodge*; the two *Bells* that the *Treble* leaves in fifth's and sixth's places *Continue Dodging* till it comes and parts them; (except at a *Bob*) every *Bell* that meets the *Treble* under fourth's place, goes no higher, but lies a *Whole-pull* in fourth's place, and then moves down again: at a *Bob*, the *Bell* in fourth's place goes up, and the *Bell* in fifth's comes down; and every time the *Half-hunt* is in second or third's place, a *Bob* must be made, except the *Quarter-hunt* be with it, and then not.

*J.P.*

123456				
214365	146325	154632	Bob	For 720
241356	153624	Bob	125463	the Sin-
423165	Bob	145362	152436	gles are
432615	135264	154326	Bob	the same
346251	153246	Bob	125346	as the fore-
432651	Bob	145236	145623	mer,
346215	135426	135642	Bob	
364125	125634	Bob	154263	
631452	Bob	153462	132465	
613425	152364	152643	123456	
164352				

## Ladbury Bob.

Hunts I 6 5.

1-5-6

**T**HIS *Peal* is the same as the former, except in this: That when the *Treble* is behind, the *Bell* in third's place lies still a *Whole-pull*, and the two foremost *Bells* make a *Single Dodge*. The Method for the *Bobs* is the same, and they are to be made after the same manner, as in the foregoing *Peal*.

123456				
214365	154326	152436	153246	146253
241356	Bob	Bob	Bob	164235
423165	145236	125346	135426	132465
432615	154263	152364	153462	123456
346251	Bob	Bob	Bob	
436521	145623	125634	135642	For 720
345612	135264	145362	125463	the Sin-
354162	Bob	Bob	Bob	gles as be
531426	153624	154632	152643	fore.
513462				

## Albions Delight.

Hunts I 3 6.

**I**N this *Peal* the *Treble* is *Hunt*, and as soon as it moves out of the fourth's place, the two foremost *Bells Dodge*, till the *Treble* comes down and



# The Art of Ringing.

73

and parts them; when the *Treble* lies behind, the *Bell* in fifth's place lies still, and the *Bells* in third and fourth's places make a *Single Dodge*; the two *Bells* that the *Treble* (when it comes from behind) leaves in the fifth and sixth places, *Dodge* till it comes up again and parts them; every *Bell* that meets the *Treble* as it *Hunts* down under the fourth's place, goes no higher but lies a *Whole-pull* in the fourths place, and then moves down to lead; except at a *Bob* and then the *Bell* in fourth's place goes up, and the *Bells* in fifth's place comes down. And the rule for calling them, is the same as in the foregoing *Peal*.

123456					
214365	125634	135642	bob	For 720	
241356	152643	134256	153246	the Singles	
423165	163542	bob	135264		
243615	136524	143526	bob	132546	
426351		134562	153624	Single	
243651	154326	bob X	143265	132456	
426315	145362	143562	bob		
246135	132465	123654	134625	123546	
421653	bob	bob X	132546	Single	
412635	123645	132654	bob	123456	
146253	153462	135426	123456		
164235	bob				

Bridges

## Bridges Pleasure. By J. D.

Hunts 1 3 4.

**T**HE Treble only in this *Peal* hath a plain *Hunting Course*; for as soon as it leaves leading; the *Bell* in sixth's *Hunts* down into third's place, where it lies a *Whole-pull*, whilst the two foremost *Bells* make a *Single Dodge*; then the *Bell* in third's place, and the *Bell* that first took lead of the *Treble* move up, and the other *Bell* leads a *Whole-pull*, and then makes another *Dodge* with the next *Bell* that comes down to it. The *Bell* that then happens in third's place lying still as before, after which every *Bell* hath a *Hunting Course*, till the *Dodging* again hinders; when the *Wiggle-hunt* leads, and the *Half-hunt* happens in second or third's place, a *Bob* must then be made, except the *Quarter-hunt* be with it and then not. At a *Bob* the *Bell* in fourth's place lies still, and the two hind *Bells* make a *Single Dodge*.

122456				
214365	425631	541362	165243	
241635	452361	514632	-	125634
426153	543216	-	143255	152364
246513	453126	156423	134625	

# The Art of Ringing.

75

164352	136452	132654	bob	132465
146532	bob	135426	136524	Single
132546	163425	bob	132465	132465
bob	136245	133462	bob	123465
123564	bob	135642	123456	Single
153246	163254	bob	For 720	123456
bob	123645	153624	the Sing-	
135264	bob	163542	gles	

## St. Clements Bob. By J. D.

Hunts 1 3 6.

IN this *Peal* the *Treble* hath a plain *Hunting* Course, and as soon as it leaves the fourth's place, the two foremost *Bells Dodge* till it comes down and parts them; every *Bell* that comes from behind, goes no lower than third's place, excepting that *Bell* that happens there when the *Treble* goes to leads *Hunts* down. When the *Treble* leads, the *Bell* in fourth's place lies still a *Whole-pull*, and the two hindmost *Bells* make a *Single Dodge*; at a *Bob* the *Bell* in fourth's place goes up, and the *Bell* in fifth's comes down; and they are called by the same Rule, as in the foregoing *Peal*.

123456

123456				
214365	125634	X125643	153246	For 720
241635	152643	134256	135264	the Singles
426153	163542	bob	bob	
246513	136524	143526	153624	132546
X426531	154326	134562	143265	Single
245361	145362	bob	bob	132456
423516	132465	143652	134625	123546
243156	bob	123564	132546	Si gle
421365	123645	bob	bob	123456
412635	153462	132654	123456	
146253	bob	135426		
164235		bob		

## Hankinson's Good Will.

Hunts 1 3 5.

**I**N this *Peal* every *Bell* hath a plain *Hunting* Course; till such time as the *Treble* leaves the fifts place *Hunting* down, and then the *Bell* in thirds place lies still, and the two foremost *Bells* make a *Single-dodge*; then the *Bell* in thirds place moves up into fourths place, where it lies a *Whole-pull*; as likewise does the *Bell* which happens there, when the *Treble* goes to lead; the two hind *Bells* *Dodge* till the *Treble* leaves leading. The *Bobs* are made af-

ter the same manner, and called by the same Rule, as in the foregoing *Peal*.

123456				
214365	135642	123645	123564	Bob
241635	145236	143526	Bob	136452
426153	154263	Bob	132654	132546
462513	164352	134256	134652	Bob
645231	146325	136524	Bob	123456
654321	126543	Bob	143652	
563412	162534	163254	134625	For 720
561324	132465	136245	Bob	the Sin-
516342	Bob	Bob	143265	gles as be-
153624		163425	163542	fore.

*a false Course*

St Sepulchers Bob. *J P*

Hunts 1 6 4:

**I**N this *Peal* the *Treble* hath a *Dodging Course* after this manner. First, it makes a *Single-dodge* before, the *Bells* in third and fourth's places lying still, then the *Bell* in the fourth's place *Hunts* down, and the *Bell* in third's place *Hunts* up behind, and the *Treble* up in the fourth's place where it lies a *Whole pull*; the *Bell* in third's place lying still also, and the two first and two last *Bells* make a *Single-dodge*; then the



the *Bell* in third's place *Hunts* behind, and the *Treble Hunts* down, and makes a *Single-dodge* before; the *Bells* in third and fourth's places lying still, and the *Bells Dodge* behind till *Treble* leaves leading. When the *Treble* leads, the *Bell* in second's place lies still, and the third and fourth make a *Single-dodge*; except at a *Bob*, and then the *Bell* in second's place *Hunts* up, and the *Bell* in fourth's place lies still, and every time the *Half-hunt Dodges* behind, a *Bob* must then be made; except the *Quarter-hunt Dodge* with it, and then not.

Note, The *Treble* in this Peal and some others next following, never goes any higher than the fourth's place, as in the Peals prickt down may be seen.

164

123456				
214365	153624	142563	Bob	
124356	156342	153462	152436	For 720
213435	165432	Bob	154263	the Sin-
231645	164523	135426	Bob	gles.
326154	146253	134562	145236	
236145	142635	Bob	154326	132465
321654	124365	143526	Bob	132456
312564	Bob	134256	145362	123465
135246	142356	Bob	132465	123456
315264	124536	143265	Bob	
132546	Bob	125463	123456	
135264				

Cripple-

Cripple-Gate Bob.

Hunts 1 3 4.

THE Treble in this Peal hath the same Course as in the foregoing Peal; and when it Dodges the two Bells in third and fourth's places lie still, the Bells behind Dodge till the Treble comes to lead its Whole-pull; and then the Bell in fourths place goes up, and the Bell in fifths comes down, and so on to the end of the Peal; except at a Bob, and then the Bell in fourths place lies still, and every time the Half-bunt's in second or third's place, a Bob must be made, except the Quarter-bunt be with it.

134

JD

123456				
214365	164352	135264	Bob	
124356	146532	136452	153462	For 720
213465	156423	Bob	135642	the Sim-
231456	165243	163425	Bob	gles as
324165	125634	136245	153624	before.
342156	152364	Bob	163542	
421265	132546	163425	Bob	
413256	Bob	123645	136524	
142365	123564	Bob	132465	
412356	153-46	132654	Bob	
143265	Bob	135426	123456	
134625				

St. Lawrence

## St. Lawrence Bob.

Hunts 1 3 6,

THE Treble hath the same Course in this as in the two foregoing Peals; and when it *Dodgeth*, the Bells in third and fourth's places lie still, and a *Single-dodge* is made behind; then the Bell in third's place *Hunts* up, and parts the two hind Bells, the Bell in fifth's place comes down, and the Treble goes into fourth's, place where it lies a *Whole-pull*, whilst another *Single dodge* is made behind; then the Treble *Hunts* down to lead, but first it makes another *Dodge* before; the Bells in third and fourth's places lying still, and then it leads a *Whole-pull*; the Bell in fourths place lying still, and the two hind Bells *Dodge* till it moves up into the fourth's place again. At a *Bob* the Bell in fourths place goes up and the Bell in fifth's comes down. And they are called after the same manner, as in the foregoing Peal.

*Bob all fall but the first  
and last*

123456

# The Art of Ringing.

5  
1  
4  
81

123456

214365

124356

213465

231645

326154

362145

631254

613524

165342

165324

615324

163542

136524

146253

164235

154326

145362

125634

152643

132465

Bob

123645

153426

Bob X

135246

134652

Bob X

143562

143562

134526

X

Bob

143256

163524

Bob X

136254

135462

Bob X

153642

135624

X

Bob

153264

143625

Bob X

134265

132546

Bob

123456

123456

123456

123456

## Alteration of Hunts Single Bob Method.

THE Course of this *Peal* is the same as in *College Single-Bob* with one *Hunt*, therefore the chief thing to be observed herein, is when the *Hunt* is altered, which *Bell* takes the *Hunts* place, and likewise to make the aforefaid alteration in its proper place; now in this *Peal* every *Bell* goes *Hunt* for two leadings, and first the *Treble* is *Hunt* till the second time it comes to lead; and then a *Dodge* is made by it, and the *Bell* lying next it (which is the fourth,) then the *Treble* leads a *Whole-pull*, and the fourth goes *Hunt* in the *Treble's* place; now when the fourth has *Hunted* two leadings, the

G

same

Same alteration is to be made again, between the fourth and the *Bell* that lies next it, (which is third) as was before made between the *Treble* and fourth; and this method is to be continued throughout the *Peal*. And observe that at an alteration of the *Hunt*, the *Bell* in third's place lies still, the *Bell* in fourth's place goes up, and the *Bell* in fifth's comes down. The *Bobs* are in course at the end of every ten leadings, and made after the same manner as in *College-Single*.

But Note, That at a *Bob* there is no alteration made in the *Hunt*, but the same *Hunt* continues till the second leading after the *Bob*.

*SP*

123456				
214365	516342	342516	254136	312456
241356	153624	312645	234651	132546
423165	135642	321654	243615	<i>Bob</i>
432615	145236	351426	213546	123456
346251	415326	531246	<i>Bob</i>	
364521	425613	541632	231456	
635412	452631	514623	321546	
653142	432156	524316	<i>Bob</i>	
561324				



*Alterations of Hunts.*

**T**HE Course of this *Peal* is the same as the foregoing *Peal*, saving only that in this there is an alteration made in the *Hunt* every leading; the first leading *Treble* is *Hunt*, and when it comes to lead there is an alteration then made by the *Bell* next it making a *Dodge* with it, which is fifth, and the fifth goes *Hunt*, and when it comes to lead the same alteration is to be made again, and this must be continued throughout the *Peal*; the *Bobs* are the same, but you must observe to call them by this Method, the third leading, the second leading after, and the fifth leading after which carries the first Sixscore, and the same Method goes the next Sixscore, and so on to the end of the *Peal*.

*But Note, That at an Alteration of the Hunt in this Peal, the Bells in third and fourth's places lie still.*

*SP*

123456				
214365	146253	421566	354162	632451
241356	156342	241536	364251	652134
423165	Bob	231645	Bob	562143
432615	165432	Bob	346521	542361
346251	135264	213465	326145	452316
364521	315246	263514	236154	412653
635412	345612	623541	256431	142635
653142	435621	643125	526413	132546
561324	425136	Bob	516324	Bob
516342	245163	634215	Bob	123456
153624	265341	614532	561234	—
513642	625314	164523	531462	
543216	615423	124365	351426	
453261	Bob	214356	321654	
463152	61243	254613	Bob	
Bob	641352	524631	312564	
436512	461325	534126	362415	
416235				

### Alteration of Hunts.

THE Course of this *Peal* is the same as the preceeding *Peal*, except at a *Bob*, for whereas in the preceeding *Peal* at a *Bob* the *Bell* in fourth's place moves up, and the *Bell* in fifth's comes down; on the contrary in this the *Bell* in fourth's place lies still at a *Bob*, and

# The Art of Ringing.

85

and the two hind Bells continue *Dodging* till the *Hunt* parts them; the Method for *Bobs* are thus, The first *Bob* is made at the third leading, the second three leadings after the first, and the third four leadings after the second, which finishes the first Sixscore; and the same Course and Method must be observed throughout the *Peal* as by the Subsequent Figures may be seen.

*JD*

123456				
214365	426531	210453	631425	153462
241356	246513	126435	361452	513426
423165	216345	136524	351264	523614
432615	126354	316542	531246	Bob
346251	156423	346215	541632	532641
364521	Bob	Bob	Bob	523614 542
635412	165432	364251	514623	253641 542
653142	135264	354162	524316	462351
561324	315246	535126	254361	642315
642 516342	345612	524631	264135	612543
153624	435621	254613	624153	162534
135642	425136	214356	634521	132465
543216	245163	Bob	Bob	Bob
453261	265341	241365	643512	123456
463152	Bob	261543	613245	
Bob	Bob	621534	163254	
436125	256314			

G 3

The

The Course of this *Peal* is the same with the foregoing *Peals*; only it differs in the Alteration of the *Hunts*, for whereas in the first of these *Peals*; the *Hunt* is altered every second leading; in this it is only alter'd at a *Bob*, so that whatsoever *Bell* takes the *Hunts* place, at the first *Bob* continues *Hunt*, until the next *Bob*. And observe, That at every Alteration, the *Bells* in third's and sixth's places lie still; and the *Bell* in fourth's place goes up, and the *Bell* in fifth's comes down; and you must make the first *Bob*, the fifth leading the second, two leadings after the first, and the third *Bob*, three leadings after the second, and so on to the end of the *Peal*.

*JP*

123456	164352	621345	526134	Bob.
241356	146325	612354	Bob.	436512
423165	126543	652413	256314	416235
432615	162534	Bob.	216453	461235
346251	132465	562143	261435	451362
364521	Bob.	542361	231564	415326
635412	312645	524316	Bob.	425613
653142	342516	514623	321654	452631
561324	324561	541632	351426	432156
516342	364125	531246	315462	423165
153624	634215	513264	365214	463521
135642	614532	563412	356241	Bob
145236	641523	536421	346152	643251
154263				653142

653142	Bob	254136	— — —	123456
635124	265341	234651	213546	208412
625431	245163	243614	Bob	208142

Alteration of Hunts, Court-  
Bob way. *LD*

THE principal Course of this *Peal* is the same as in Court *Bob*, with one *Hunt*; excepting the Alterations that are made in the *Hunt*; (which in this *Peal* is every time the *Hunt* comes to lead;) must be made after the same manner, as in the preceding *Peals*. Observing that at every Alteration, the *Bells* in third and fourth's places lie still, and the two hind *Bells* Dodge till the *Hunt* parts them; except at a *Bob*, and then the *Bells* in third and fifth's places *Hunt* down; and second and fourths place *Hunts* up. The Method for the *Bobs* in this *Peal*, is the fifth leading of the *Hunt*, the next leading after, and the fourth leading after; which finishes the first Sixscore; the same method carries on the remaining part of the *Peal*.



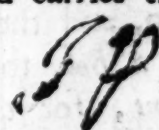
123456				
214365	213465	543216	513642	436512
241356	Bob	453261	524631	421563
423165	231645	416235	Bob	241536
243615	245613	146253	542361	263514
426351	Bob	135264	516324	623541
462531	254163	315246	156342	614532
645213	236154	364251	124365	164523
465123	326145	Bob	214356	132546
641532	354162	346521	265341	Bob
614523	534126	312564	625314	123456
165432	562143	Bob	641352	
615423	652134	321654	461325	
632451	643125	345612	452316	
362415	Bob	435621	Bob	
351426	634215	412653	425136	
531462	651243	142635	463152	
526413	561234	153624	Bob	
256431				

The Course of this *Peal* is the same as *Court-Bob*, with one *Hunt*; and it differs from the foregoing *Peal*, that the Alteration of the *Hunt*, is only at such times as a *Bob* is to be made; so that a *Bell* goes *Hunt* from *Bob* to *Bob*; at an Alteration of the *Hunt*, the *Bells* in third and fourth's places lie still; but at a constant leading of the *Hunt*, the *Bells* in third and fifth's places *Hunt* down, and second and fourth up. The Methods of calling the *Bobs* are the

# The Art of Ringing.

89

the fifth leading, the fourth leading after, and the next leading after; which *Bob* ends the first Course or Sixscore of the *Peal*; the same Method being observed carries the *Peal* 360 *Changes*; as followeth.



123456				
214365	164523	643125	254613	<i>bob</i>
241356	132546	634215	231645	543216
423165	<i>bob</i>	651243	<i>bob</i>	561234
243615	312564	615423	321654	516324
426351	346521	632451	345612	542361
462531	364251	623541	<i>bob</i>	524631
645213		614532	435621	513642
465123	315246	641352	412653	531462
641532	351426	625314	421563	526413
614523	362415	<i>bob</i>	436512	<i>bob</i>
165432	326145	265341	463152	256431
156342	354162	214356	425136	213465
124365	<i>bob</i>	241536	452316	<i>bob</i>
142635	534126	263514	461325	123456
153624	562143	236154	416235	
135264	<i>bob</i>	245163	453261	
146253	652134			

## Alteration of Hunts Double Bob way.

THE Course of this *Peal* is the same as Double *Bob*, with one *Hunt*; excepting that every time the *Hunt* comes to lead, (except

cept at a *Bob*) an alteration is then to be made, according to the same general method as in *Single Bob*; at which alteration the *Bell* in third's place lies still, the *Bell* in fourth's goes up, and the *Bell* in fifth's come down; but at a *Bob*, there is no alteration made in the *Hunt*, for the same *Hunt* continues till the next leading, and the *Bell* in third's place moves down, and the *Bell* in fourth's place lies still. The Method for calling the *Bobs* is the same as in the foregoing *Peal*.

123456				
214365	254136	652413	364125	<i>bob</i>
241356	213546	562143	312645	563412
423165	<i>bob</i>	514623	<i>bob</i>	541632
243615	231564	154263	321654	451362
426351	256314	126543	365214	436512
246531	526134	216453	<i>bob</i>	346152
425613	513264	245163	356241	315462
245163	153624	425613	324561	135642
421536	162534	461253	234651	164352
412563	612354	<i>bob</i>	265341	<i>bob</i>
145236	635124	416235	625431	146325
415326	<i>bob</i>	423165	643251	132465
432156	653142	243615	463521	<i>bob</i>
342516	614532	261435	452631	123456
351426	<i>bob</i>	621345	542361	
531246	641532	634215	536421	
524316				

Of Treble Bob.

SO called from the constant *Dodging* course that is assigned unto the *Treble*; for whereas in all other *Peals* where the *Treble* has a plain *Hunting* Course; the course or length of a *Treble* leading is no more than twelve *Changes*, but in the following *Peals* the *Treble* having a double Course, by *Dodging* before, in the middle, and behind, (before and after having lain still, or led a *Whole-pull*,) that course is doubled, so that every leading contains twenty four *Changes*, and the Course of each *Peal* without a *Bob* is 120, and by making three *Bobs* they will go Eightenscore, but by making nine *Bobs* they will go 720 Compleat *Changes* without a *Single*; as by the following *Peals* and Directions will more plainly appear.

Oxford Treble Bob.

Hunts 1 3.

THE *Treble* in this *Peal* hath a *Dodging* Course after this manner, First it makes a *Single-Dodge* before, then it *Hunts* up into the fourths

fourth's place ; where it makes another *Dodge*, by coming back again into the third's place, then it *Hunts* directly up behind ; and as soon as it comes behind, it makes another *Dodge* by coming back into the fifth's place, and then it goes behind again, where it lies a *Whole-pull*, and then goes into fifth's place and makes another *Dodge*, back again into the sixth's place, then it *Hunts* down into the third's place, where it makes another *Dodge*, by going back into fourth's place, and then *Hunts* down to lead, and as soon as it comes before it makes another *Dodge*, and then leads a *Whole-pull*. This is the Course of the *Treble*, and that *Bell* that takes first the lead from the *Treble*, continues to lead a *Whole-pull*, and lie a *Pull* in second's place, till such times as the *Treble* comes to lead again ; when the *Treble* *Dodgeth* behind, the *Bells* in third's and fourth's places make a *Single Dodge* ; when it *Dodges* before, the *Bells* in third and fourth's places lie still, and a *Single Dodge* is made behind. When it leads the *Bell* in fourth's place goes up, and the *Bell* in fifth's comes down ; except at a *Bob*, and then the *Bell* in fourth's place lies still, and a *Double Dodge* is made behind, and every time the *Half-hunt* makes a *Change* next *Whole hunt*, a *Bob* must be made, and three *Bobs*, goes Eighteen.



Eightenscore Changes; but to go 720 without a *Single*, observe the following Direction.

123456				
214365	265341	123465	135264	123456
124356	256431	213456	132546	---
213465	524613	124365	Bob	
231645	526431	142635	123564	
326154	254613	146253	132654	
321645	245163	164523	Bob	
236154	421536	165432	123645	
263514	425163	156342	132465	
625341	241536	153624	Bob	
623514	214356			

*Directions to go 720 without a Single.*

**I**N all Treble Bobs where the Bell in seconds place lies still, with the *Whole-hunt* at the *Dodges*; this Rule must be observed, to go Eightenscore with a *Whole* and a *Half-hunt* with three *Bobs*, as it is prickt every time the *Half-hunt* comes into sixth place, and the *Whole-hunt* lead, make a *Bob*; or every time the *Half-hunt* comes into fifth's place make a *Bob*; this will go Eightenscore, but to go 720 you must make use of a *Quarter-hunt*, and when the *Half-hunt* comes into fifth or sixth places, make a *Bob*, except

except the *Quarter-bunt* be in one of those places and then not, and this will go 720 without a *Single*.

And in all *Peals* where the *Bell* in fourth's place lies still (at the leadings of the *Whole-bunt*) at the *Dodges*; this Rule must be observed every time the *Half-bunt* is in second or third's place, a *Bob* must be made, and three *Bobs* goes Eighteenscore, but for 720 you must use a *Quarter-bunt*, and then, if the *Quarter-bunt* be in one of those places with the *Half-bunt*, then not, this with nine *Bobs* will go 720 *Changes* without a *Single*; as in the following example may be seen.

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*The Bobs for 720. Oxford Treble Bob.*

Hunts 1 3 5.

<u>132546</u>			
Bob	134562	163254	Bob
123564	Bob	136524	123456
<u>163425</u>	143526	Bob	—
Bob	<u>123645</u>	163542	
136452	Bob	143265	
<u>134625</u>	132654	Bob	
Bob	<u>136245</u>	134256	
<u>143652</u>	Bob	<u>132465</u>	

*College Treble Bob.*

*Hunts 1 3 6.*

**T**HE Treble hath the like *Dodging* course in this as in the preceeding *Peal*, and when it *Dodges* before, the *Bells* in third and fourth's places lie still, and the two hind *Bells* make a *Single Dodge*; when it *Dodges* in the middle the *Bell* in second place lie still, and another *Single Dodge* is made behind when it leaves the fourth's place the *Bell* in third's place lies still, and the two foremost *Bells* make a *Single Dodge*; when it *Dodges* behind, the *Bell* in fourth's place lies still, when it lies behind, the two foremost *Bells* make a *Single Dodge*. When it leaves the fifth's place *Hunting* down, a *Single Dodge* is made before, when it leads, the *Bell* in fourth's place lies still, except at a *Bob*, and then the *Bell* in fourth's place goes up, and the *Bell* in fifth's comes down, and they are called by the same Rule, as in the foregoing *Peal*.

JP

123456		
214365	456213	152643
124356	546123	146253
213465	451632	164235
231645	456123	132465
326154	541632	Bob
321645	514362	123645
236154	153426	132654
326514	513462	Bob
235641	154326	123564
253614	145362	132546
526341	162542	Bob
255431	136524	123456
524613		
542631	125634	

The Method for 720 is the same as in the preceding Peal.

### College Pleasure.

Hunts 1 3 6.

THE Course of this Peal is the same as Oxford Treble Bob, till the Treble comes to Dodge behind, and then the Bells in third and fourth's places lie still, and the two foremost Bells Dodge, till the Treble hath finish't its Course

# The Art of Ringing.

97

Course behind ; but observe, when it lies still behind, the *Bell* in third's place lies still only) and then the same Course must be observed in the *Hunting* of it down, as was in its *Hunting* up. The Method for the *Bobs*, either for the 360 or 720, is the same as in the foregoing *Peal*.

123456	625341	362145	164235	132654
214365	265314	631254	154326	<i>Bob</i>
124356	623541	613524	145362	123564
213465	263451	165342	125634	132546
231645	624315	615324	152643	<i>Bob</i>
326154	264351	163542	132465	123456
321645	623415	136524	<i>Bob</i>	
236154	632145	146253	123645	
263514	361254			

Now the Practitioner being perfect in these three *Peals*, he may then proceed to the next following ; which is to Ring an Eightenscore without a *Bob*, as followeth.

## Crown Bob.

Being a Composition of Three *Peals*, viz. Oxford Treble Bob, College Pleasure, and College Treble Bob. The first Treble leading of this

H



this *Peal* must be Rung by the same Course as *Oxford Treble Bob*; the second *Treble* leading by the Course of *College Pleasure*; and the third leading by the Course of *College Treble Bob*, which Course must be continued throughout the *Peal*, and five leadings of each *Peal* compleats an Eightenscore. As in the following example may be seen.

*The Treble leadings.*

	123456		152364		154263
Ox.	124365	C. T.	163254	C. P.	134625
	142356		136245		143652
C. P.	162543	Ox.	132654	C. T.	156342
	126543		123645		165324
C. T.	145623	C. P.	153462	Ox.	146253
	154632		135426		164235
Ox.	156423	C. T.	124536	C. P.	163542
	165432		142563		136524
C. P.	125346	Ox.	145236	C. T.	132465
					123456

*The three first leadings at length.*

123456				
214365	236154	524613	241536	413265
124356	263514	526431	214356	143256
213465	625341	254613	123465	412365
231645	623514	245163	213456	421635
326154	265341	421536	124365	246153
321645	256431	425163	142356	241635

426153

426153	261453	216534	425316	145623
462513	264135	261354	452361	—
645231	621453	623145	543216	154632
465213	612543	621354	453126	Of
642531	165284	263145	541362	—
462351	615243	623415	543126	—
643215	162534	264351	451362	—
463251	126543	246315	415632	—
642315	215634	423651	146523	—
624135	125643	243561	416532	—

*Morning Star.*

*Hunts 1 6.*

THE *Treble* in this *Peal* hath the same Course as in the former *Peals*; and when it *Dodges* behind the *Bells* in third and fourth's places lie still, and the two foremost *Bells* make a *Single Dodge*, otherways it is the Course of *Oxford Single*, till the leading of the *Treble*, and then the *Bell* in second's place lies still and the other four *Dodge*; except at a *Bob*, the *Bell* in second's place goes up, and the *Bell* in fourth's place lies still. The *Bobs* are made according to the preceeding general Rule.

123456				
214365	265314	321654	165432	Bob
124356	623541	312564	164523	134256
213465	632451	135246		132456
231645	364215	315264	146253	Bob
326154	634251		142634	123456
321645	362415	132546	124365	---
236154	326145	135264	Bob	
263514	231654	153624	142356	
625341	236145	156324	143265	

For 720 1 6 4. may be Hunts or others at pleasure.

### Evening Star.

Hunts 1 3.

THE Course of this *Peal* is the same as the former, till such time as the *Treble* has left *Dodging* in the Middle, and then the *Bell* in third's place lies still, and the two foremost *Bells* make a *Single Dodge*, when the *Treble* *Dodges* behind, the *Bell* in second's place lies still, and third's and fourth's places *Dodge*; when it leaves the fifth's place *Hunting* down they make another *Single Dodge* before; when it leads, the *Bell* in fourth's place lies still, except

# The Art of Ringing.

101

cept at a *Bob*, then the *Bell* in fourth's place goes up, and fifth's comes down, the *Bobs* as before.

123456				
214365	236514	531462	164352	<i>bob</i>
124356	325641	513642	146325	123564
213465	352461	156324	126543	132546
231645	534216	516342	162534	<i>bob</i>
326154	532461	153624	132465	123456
321645	354216	135642	<i>bob</i>	
236154	534126	145236	123645	
326514	351462	154263	132654	
235641	354126			

## London Delight.

Hunts I 5.

THE Course of this *Peal* is the same as the former; excepting that when the *Treble* lies still behind, a *Single Dodge* is made by the two foremost *Bells* (the *Bell* then happening in third's place lying still) and when *Treble* leads, the *Bell* in second's place lies still, and the *Bells* in third and fourth's make a *Single Dodge*; at a *Bob* the *Bell* in second's place goes up, and fourth's place lies still.

H 3

123456

123456				
214365	236514	321465	156423	Bob
124356	325641	312645	154632	134256
213465	235461	136254	145236	132465
231645	324516	316245	142563	Bob
326154	325461	132654	124365	123436
321645	234516	136245	Bob	
236154	324156	163542	142356	
326514	231465	165324	143265	
235641	234156			

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### Morning Pleasure.

Hunts I 3.

**T**HIS Peal hath the same Course as Oxford Treble Bob; excepting that when the Treble lies still behind, the Bell in third's place lies still, and the two foremost Bells make a Single Dodge; when Treble leads, the Bell in fourth's place lies still; but at a Bob it goes up, and the Bell in fifth's place comes down: The Bobs must be made according to the general Rule, either for Eightenscore, or 720.

123456



# The Art of Ringing.

103

123456				
214365	623514	641235	126543	Bob
124356	265341	614325	162534	123564
213465	625431	163452	145236	132546
231645	264513	613425	154263	123456
326154	265431	164352	132465	
321645	624513	146325	Bob	
236154	642153	153624	123645	
263514	461235	135642	132654	
625341	462153			

## Primrose.

Hunts I 3.

THE Treble hath the same Course in this as in the foregoing Peal; and when it Dodges before, the Bell in third's place lies still, and the Bell in sixth place Hunts directly down; then the Bell that was in third's place goes up into the fourth's place, where it lies another Pull, the two Bells behind Dodge till the Treble comes up and parts them; when the Treble hath left Dodging in the middle, the two foremost Bells make a Dodge; when it lies still behind, another Dodge is made by the two foremost Bells, when it Dodges behind the Bell in

H 4

fourth's

fourth's place lies still, when it *Hunts* down from behind, the two foremost *Bells* make another *Dodge*, when it leads the *Bell* in fourth's place goes up, and that in fifth's comes down, except at a *Bob*, and then the *Bell* in fourth's place lies still, and the two hindmost *Bells* make a *Single Dodge*. The Method for the *Bobs* are the same as before.

123456

214365

124635

216453

261435

624153

621435

264153

624513

265431

256413

524631

254361

523416

532461

354216

534126

351462

354126

531462

513426

154362

514632

156423

165243

143265

134625

125634

152364

164352

146532

132546

Bob

123564

132654

Bob

123645

132465

Bob

123456

*Tulip.*

*Hunts* 1 6.

**T**HE *Treble* hath the like *Dodging* Course in this as in the former *Peals*; and when it *Dodges* before, the *Bell* in third's place lies still;

# The Art of Ringing.

105

still; when it *Dodges* in the middle, a *Single Dodge* is made behind; when it leaves *Dodging* in the middle (*Hunting* up) a *Single Dodge* before; when it *Dodges* behind, the *Bell* in fourth's place lies still, when it lies still behind, the *Bell* in third's place lies still, and a *Single Dodge* is made by the two foremost *Bells*; when it leaves fifth's place *Hunting* down, another *Single Dodge* before; when it leads the *Bell* in second's place lies still, and the other four make a *Single Dodge*; except at a *Bob*, and then the *Bell* in second's place goes up, and the *Bell* in fourth's place lies still; the *Bobs* are call'd according to the preceeding general Rule, for Eightenscore when the *Half Hunt* *Dodges* behind, for 720 every time it *Dodges* behind, except with the *Quarter*, and then not any *Bell* may be *Half* or *Quarter Hunt* at pleasure.

123456				
214365	236514	341562	156423	bob
124635	325641	314652	154632	134256
216453	235461	136425	145236	132465
261543	324516	316245	112563	bob
625134	342561	132654	124365	123456
621543	435216	136245	bob	
265134	345126	163542	142356	
625314	431562	165324	143265	
263541	435126			

IN

Violet.

Hunts 1 3.

**I**N this Peal the Bell that first takes the lead from the Treble, continues to lead a Pull, and lies a Pull in second's place, till such time as the Treble comes to lead again; when the Treble Dodges behind, the Bell in second's place lies still, and third and fourth's places make a Single Dodge; when it leads, the Bell in fourth's place lies still, but at a Bob it goes up, and the Bell in fifth's comes down.

123456				
214365	526314	241365	146253	bob
124635	253641	214635	164235	123564
216453	235461	126453	163542	132465
261543	324516	216543	136524	bob
625134	325461	125634	132465	123456
621543	234516	152643	bob	
265134	243156	154326	123645	
256314	421365	145362	132654	
523641	423156			

### Cheapside Bob.

Hunts 1 3.

**I**N this Peal when the Treble Dodges in the middle, the Bells in fifth's and sixth's places lie still, and the two foremost Bells make a Single

*Single Dodge* ; when it *Dodges* behind, the *Bells* in third and fourth's places lie still, and another *Single Dodge* is made before ; when it *Dodges* before, the *Bell* in third's place lies still, when it leads, the *Bell* in fourth's place goes up, and fifth's comes down ; but at a *Bob* the *Bell* in fourth's place lies still.

123456				
214365	643215	621453	153624	Bob
124635	462351	612435	135264	123645
216453	426531	164253	146253	132465
261435	245613	614523	164523	Bob
624153	425631	165432	132546	123456
261453	246513	156342	Bob	
624135	264153	124365	123564	
642315	621435	142635	132654	
463251	264135			

*Symphony. By J. D.*

*Hunts* 1 3.

**I**N this *Peal* when the *Treble Dodges* before, the *Bell* in fifth and sixth's places lie still ; when it *Dodges* in the middle, the *Bell* in second's place lies still, and the two hind *Bells* make a *Single Dodge* ; when it *Dodges* behind, the *Bell* in fourth's place lies still ; when it lies behind, the



the *Bell* in third's place lies still, and the two foremost *Bells* make a *Dodge*; when it leads, the *Bell* in fourth's place lies still, but at a *Bob* it goes up.

123456				
214365	264513	631542	126543	<i>Bob</i>
123465	625431	613452	162534	123564
214356	265341	164325	145236	132546
241536	623514	613425	154263	<i>Bob</i>
425163	632541	164352	132465	123456
421536	365214	146325	<i>Bob</i>	
245163	635124	153624	123645	
425613	361542	135642	132654	
246531	365124			

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*Westminster Bob.* By J. D.

*Hunts* 1 6.

IN this *Peal* the *Bells Dodge* behind, till *Treble* parts them, when it *Dodges* before, the *Bells* in third and fourth's places lie still, when it *Dodges* in the middle, the *Bell* in second's place lies still; when it leaves the fourth's place *Hunting* up, or fifth's *Hunting* down, the *Bell* in third's place lies still, and the two foremost *Bells* make a *Single Dodge*; when it *Dodges* behind the *Bell* in second's place lies still, and third

## The Art of Ringing.

109

third and fourth's make a *Dodge*, when it lies behind, the *Bell* in third's place lies still, and the two foremost *Bells Dodge*; when it leads, the *Bell* in second's place lies still, and the *Bell* in third and fourth make a *Single Dodge*; except at a *Bob*, and then the *Bell* in second's place goes up, and the *Bell* in fourth's place lies still. The *Bobs* for 360, or 720, are according to the general Rule.

<u>123456</u>				
214365	234615	321546	165432	<i>Bob</i>
124356	326451	312564	164523	<u>134256</u>
213465	236541	135246	146253	132465
231456	325614	315264	142635	<i>Bob</i>
324165	326541	132546	124365	<u>123456</u>
321456	235614	135264	<i>Bob</i>	
234165	325164	153624	142356	
324615	231546	156342	143265	
236451	235164			

## College Delight.

*Hunts* 1 3.

**I**N this *Peal* when *Treble Dodges* before, the *Bells* in third and fourth's places lie still; when it *Dodges* in the middle, the *Bells* in fifth and sixth's places lie still, and the two fore-

foremost *Bells* make a *Dodge*; when it *Dodges* behind, the *Bell* in second's place lies still, and third and fourth's make a *Single Dodge*; when it lies behind, the *Bell* in fifth's place lies still and the other four make a *Dodge*; when it leads, the *Bell* in fourth's place goes up, and the *Bell* in fifth's comes down, but at a *Bob* the *Bell* in fourth's place lies still.

123456				
214365	632415	461325	124365	<i>Bob</i>
124356	364251	416235	142635	123645
213465	632451	142653	165432	132465
231645	364 15	412635	156342	<i>Bob</i>
326154	362451	146253	132546	123456
231654	634215	164523	<i>Bob</i>	
326145	643125	153524	123564	
362415	461352	135264	132654	
634251	643152			

*London Scholars Pleasure.* By J. D.

*Hunts* 1 3.

THE Course of this *Peal* is the same as Oxford *Treble Bob*, until the *Treble* comes to *Dodge* behind, and then the *Bell* in third and fourth's place lie still, and the two foremost

*Bell*

# The Art of Ringing.

III

Bells make a *Dodge*; when it lies behind, the Bell in fifth's place lies still, and the other four make a *Dodge*; when it leads, the Bell in fourth's place goes up and the Bell in fifth's comes down; but at a *Bob* the Bell in fourth's place lies still.

123456				
214365	265314	615423	135264	123645
124356	623541	164532	146253	132465
213465	265341	614523	164523	Bob
231645	623514	165432	132546	123456
326154	263541	156342	Bob	
321645	625314	124365	123564	
236154	561243	142635	132654	
263514	562134	153624	Bob	
625341	651243			

## Evening Delight.

Hunts I 3.

IN this *Peal* the *Treble* only *Dodges* before, then it *Hunts* up behind, where it lies a *Whole Pull*, and then *Hunts* down into the third's place, where it lies another *Whole Pull*, and then *Hunts* up again, and lies another *Pull* behind, before it *Hunts* down to lead; when the *Treble* leaves the fourth's place, the first time it

it *Hunts* up, the two foremost *Bells Dodge*, till the *Treble* has lain a *Pull* behind; when the *Treble* lies in third's place, the *Bell* in fourth's place lies still, and the two first and two last *Bells* make a *Single Dodge*, as soon as it comes behind the second time, the two foremost *Bells Dodge* again, and continue *Dodging* till it comes down and parts them; when it leads, the *Bell* in fourth's place lies still and the two hind *Bells Dodge* till it goes up and parts; but at a *Bob*, the *Bell* in fourth's place *Hunts* up, and the *Bell* in fifth's comes down.

123456				
214365	352164	251634	146253	<i>Bob</i>
124356	531246	215643	164235	123564
213465	351264	126534	163542	132546
231456	532146	216543	136524	<i>Bob</i>
324165	523416	125634	132465	123456
34615	254361	152643	<i>Bob</i>	
326451	524631	154326	123645	
236541	256413	145362	132654	
325614	526143			

*Morning*



Morning Exercise. By J. D.

Hunts. I 3.

IN this Peal when the Treble Dodges before, the Bell in third's place lies still, and the Bell in sixth's place Hunts directly down, when it leaves Dodging before, the Bell in fourth's place lies still; when it Dodges in the middle, the Bell in second's place lies still; when it Dodges behind, the Bells in third and fourth's places lie still, and the two foremost Bells Dodge; when it lies behind, the Bell in third's place lies still only, and the two foremost Bells Dodge; when it leads, the Bell in fourth's place lies still but at a Bob it goes up and the Bell in fifth comes down.

123456	22221	22212	21221	22212
214365	42221	22212	12221	22212
124635	42221	22212	12221	22212
216453	22212	22212	12221	22212
261435	22212	22212	12221	22212
624153	22212	22212	12221	22212
621435	22212	22212	12221	22212
64153	22212	22212	12221	22212
46513	22212	22212	12221	22212
25631	22212	22212	12221	22212
245613	461253	153624	Bob	123645
426531	416235	135642		132546
246351	142653	164352	Bob	123456
423615	412563	146325		123456
243651	145236	132465	Bob	123456
426315	154263			123456
462135	126543			123645
641253	162534			132654
642135				

## Royal Bob.

Hunts 1 3.

**T**HE Course of this *Peal* is the same as the former *Peal*, till the *Treble Dodges* in the middle, and then the *Bells* in fifth and sixth's places lie still, and the two foremost *Bells* make a *Dodge*; when it *Dodges* behind the *Bell* in thirds place lies still, and another *single dodge* is made; when it lies behind, every *Bell* hath its *Hunting Course*; when it leads the *Bell* in fourths place goes up and fifths comes down; but at a *Bob*, the *Bell* in fourths place lies still.

123456	643215	621453	153624	Bob
214365	462351	612435	135264	123645
124635	426531	164253	146253	132465
216453	245613	614523	164523	Bob
261435	425631	165432	132546	123456
624153	246513	156342	Bob	
261453	264153		123564	
624135	621435	124365	132654	
642315	264135	142635		
423151				
	243651	543261		
	423651	432651		

City Delight. By J. D.

Hunts 1 3.

**I**N this Peal when the Treble Dodges before, the Bell in fifths place hunts directly down, and the Bell that first took the lead of the Treble, continues to lead a Pull, and lies a pull in seconds place, till such time as the Treble comes to lead again, when it Dodges in the middle, the two hind Bells make a Single Dodge; when it dodges behind, the two middle Bells make a single dodge; when it leads the Bell in fourths place goes up, and the Bell in fifths comes down; at a Bob, the Bell in fourths place lies still.

123456	526314	241365	164352	Bob
214365	253641	214635	146532	123645
124635	235461	126453	143265	132465
216453	324516	216543	134625	Bob
261543	325461	125634	132546	123456
625134	234516	152364	Bob	
621543	243156		123564	
265134	423156	156423	132654	
256314	522156	165243		
523641				

## New London Pleasure. By J. D.

Hunts 1 3.

IN this Peal when the Treble leaves leading, the Bells as they come before continue to lead a pull, and Dodge a pull, till it comes down to lead again; when the Treble Dodges in the middle, the two hind Bells lies still; when it Dodges behind the Bells in third and fourths places lie still; when it Dodges before, the Bell in third's place lies still; when it leads, the Bell in fourth's place goes up, and fifth comes down; at a Bob the Bell in fourths place lies still.

123456				
214365	643215	621453	153624	Bob
124635	462351	612435	135264	123645
216453	426531	164253	146253	132465
261435	245613	614523	164523	Bob
624153	425631	165432	132546	123456
261453	246513	156342	Bob	
624135	264153	124365	123564	
642315	621435	142635		
463251	264135		132654	

Great Variety of more Peals are to be prickt upon six Bells, but for brevity's sake, we omit pricking any more, and refer the Practitioner to Changes on seven Bells, we designing to enlarge somewhat more thereon than what has hitherto been made publick.

## Of Changes on Seven Bells,

Commonly call'd Tripples.

**T**His Name or Denomination of *Tripples*, is very properly applied in this Case (to Changes on seven Bells) by reason that in all practical *Peals*, every Change is a *Tripple Change*, because six of the seven Bells Change their places every time that a Change is made; and of these Changes as well as others, there are divers ways and methods to be used in Pricking or Ringing them; for any *Peal* upon six (wherein half the Changes are double) will go *Tripples* upon seven, or any *Peal* of doubles upon five, will go *Tripples* upon seven, but laying aside others, we shall enlarge the more upon those that are now in practice; and endeavour (as much as possible) to lay down plain and easie Rules for Ringing them, and to give the most Methodical Ways for calling of *Bobs* for any *Peal*, whether long or short. And first for

follows it is in the plain Course that is rung up and down (after the Treble) in the same manner as the Treble does, and continues in that Course till a Bob, and any Bell that makes a Bob, and is in fifth place, is called *Grand*.



*Grandfire Tripples.*

**S**O call'd by reason that the ordinary Course thereof is the same as in *Grandfire* upon five Bells, saving that the two Additional Bells make the Course the longer; for whereas in that, every Bell *Hunts* till the Treble leaves leading when the Bell in third's place lies still, and the other two *Dodge*; so likewise in this *Peal* of *Grandfire Tripples*, every Bell *Hunts* till the Treble hath left leading, and the Bell in third's place lies still, and the other four make a *Single Dodge*, and this is the ordinary Course or Method of Ringing this *Peal*: But lest the Practitioner at first cannot so readily give attention to hear when Treble leads, there is another Way or Method, whereby this *Peal* is commonly Rung.

And that is by observing the motion of the Treble, as it *Hunts* from behind, in what place it is in, when you meet or follow it; for example, when the Treble is in sixth's place, the Bell that follows it is in the plain Course that is *Hunts* up and down (after the Treble) in the same manner as the Treble does, and continues in that Course till a *Bob*, and any Bell that meets the Treble in fifth's place, and it in sixth's, lies

a *Whole Pull* behind, then *Hunts* down into fourth's place, and makes a *Dodge* back into the fifth's place, and then *Hunts* down to lead, any *Bell* that meets the *Treble* in fourth's place, and it in fifth's goes behind, where it lies a *Whole Pull*, then makes a *Single Dodge* and moves down to lead; any *Bell* that meets the *Treble* in third's place, and it in fourth's, as soon as it comes behind makes a *Single Dodge*, then it lies a *Whole Pull* behind, before it moves down to lead; any *Bell* that meets the *Treble* in second's place, and it in third's, as soon as it comes into fifth's place makes a *Dodge* back again into fourth's place, and then *Hunts* up behind; and any *Bell* from which the *Treble* takes the lead, moves up into the third's place, where it lies a *Whole Pull*, and moves down to lead, and that *Bell* which first takes the lead of *Treble*, is in the plain Course (as before) and this is the other way of Ringing this *Peal*, and by either of these Methods it will go seventy *Changes*; but by making of *Bobs* it will go 350, 504, 630, 700, 1008, 1260, or 2520, the *Half Peal*.

But before the Practitioner adventures upon any of these *Peals*, it will be very necessary for him to learn the Course perfectly, and from thence he may proceed to a *Bob*, which being thoroughly perfect in, he may

proceed to some short *Peal*, before he adventures upon long ones.

*The Course of Grandfire Tripples.*

1234567

2135476

2314567

3241657

3426175

4261753

4637251

6473521

6745312

7634132

7561423

5716243

5172634

1527364

1253746

2157364

2513746

5231476

5324167

3542617

3456271

4365721

4637512

6473152

6741325

7614235

7162453

1726543

1275634

2176543

2715634

7251364

7523146

5732416

5374261

3547621

3456712

4365172

4631527

6413257

6142375

1624735

1267453

2164735

2617453

6271543

6725134

7652314

7563241

5736421

5374612

3547162

3451726

4315276

4132567

1423657

1246375

2143657

2416375

4261735

4627153

6472513

6745231

7654321

7563412

5736142

5371624

3517264

3152746

1325476

1234567

Now when the Practitioner is thoroughly perfect in the Course, he may then proceed to the Ringing 168 of this *Peal*, in which the chief thing to be observed is the Method of making and calling the *Bobs*; for calling them for this *Peal* the most easiest way is every

every fourth leading of the *Whole Hunt*; but observe to call it just as the *Treble* is coming down back-stroke, before it goes to lead, (the *Bob* being made at fore-stroke) and is a *Double Dodge*, made upon the four hind *Bells*; there being at a *Bob* two several *Bells* that lie each of them a *Whole Pull* in third's place; which is the *Bell* from which the *Treble* takes the lead, and that *Bell* which is in third's place, and follows the *Treble* as it comes down back-stroke to lead, which *Bell* goes down, and takes lead of the *Treble*, so that it comes into the plain course, and continues in the same until the next *Bob*, and three *Bobs* bring the the *Bells* round, as in the following *Peal* will more plainly be seen.

168 *Grandfire Tripples.*

1234567	5716243	4365721	7251364
2135476	5172634	4637512	7523146
2314567	1527364	6473152	5732416
3241657	1253746	6741325	5374261
3426175	2157364	7614235	3547621
4362715	2513746	7162453	3456712
4637251	5231476	1726543	4365172
6473521	5324167	1275634	4631527
6743312	3542617	2176543	6413257
7554132	3456271	2715634	6142375
7561423			

1624735	3451726	1632745	1643725
1267453	4315276	1367254	1467352
2164735	<i>Bob</i>	<i>Bob</i>	<i>Bob</i>
2617453	4132567	1245376	1325476
6271543	1435276	1423567	1234567
6725134	1342567	1547263	
7652314	1537462	1452736	
7563241	1354726	1746532	
5736421	1736524	1475623	
5374612	1375642		
3547162			

Now having in a very plain method laid down the manner of making a *Bob*, and likewise the true time to call it, we shall make no further examples thereof, what then remains, is to show the Practitioner how and by what Method any number of *Changes* (of this *Peal*) may be Rung, whether long or short.

But to proceed gradually in this as well as in other *Peals*, the next *Peal* we shall make mention of is 350; wherein is to be observed (besides the *Whole Hunt*) a *Half Hunt*, (which in the following *Peal* is the seventh) by which the *Bobs* are called, (but any *Bell* may be made *Half Hunt* at pleasure of him that calls the *Bobs*) observing to call them every time the *Treble* (or *Whole Hunt*) comes down to take the lead from the *Half Hunt*



# The Art of Ringing.

123

and this with five Bobs will go 350 Changes as follows.

## For 350 Grandfire Tripples.

Hunts 1 7.

1234567			
2135476	6741325	1246573	1654237
2314567	7614235	1425637	1562473
3241657	Bob	1647235	1453672
3426175	7162453	1462753	1546327
4362715	1764235	Bob	1357426
4637251	1672453	1735426	1534762
6473521	1463752	1374562	Bob
6745312	1647325	1532764	1726543
7654132	1365427	1357246	1275634
7561423	1634572	1236547	1624735
5716243	1562374	1325674	1267453
5172634	1653247	1634275	1423657
1327364	1267543	1362457	1246375
1253746	1625734	1437652	1325476
2157364	Bob	1346725	1234567
2513746	1743652	Bob	
5231476	1476325	1752364	
5324167	1345726	1573246	
3542617	1437562	1256743	
3456271	1542367	1527634	
4365721	1453276		
4637512			
6473152			

Now

Now that the Practitioner may have some further knowledge or insight when to call a *Bob*, he may observe, that whatsoever *Bell* is made or designed for *Half Hunt*, every time such *Bell*, (as aforesaid) *Dodges* in the middle and then moves up and meets the *Treble* behind is a certain warning for *Bob* to be called in the 350; as soon as the *Half Hunt* comes down to lead, as in the foregoing *Peal* may plainly be seen.

The next *Peal* that follows (in Course) is 504, to Ring which, the same Method must be observed in all places as in the 350, except in calling of the *Bobs*, they being divided into Courses; now in this *Peal* of 504, (so likewise in all greater *Peals* the *Bobs* are divided into several Parts or Courses, according as the length or Course of the *Peal* composed will admit) they are divided into two Courses, there being four *Bobs* in a Course and consequently eight in the *Peal*; to call which observe the following Method.

First, The Person that designs to call the *Bobs* having pitch'd upon the *Bell* he Rings (or any other) to be the *Half Hunt*, he must call the two first *Bobs* by that *Bell*, after the same manner as in the 350, (which two *Bobs* in terms of Ringing are called two before) the next *Bob* must be called four leadings further

# The Art of Ringing. 125

ther, by which the *Half Hunt* comes into the plain Course, the next *Bob* must be at the distance of five leadings (the same *Bell* being before, as was when the *Half Hunt* was called into the plain Course) then the *Half Hunt* will Dodge in the middle, and this *Bob* finishes the first Course or part of the *Peal* (which in Ringing terms is called two before, into the *Hunt*, and out of the *Hunt*) the same Method being observed again concludes the *Peal*, as follows.

## Grandfire Tripples 504.

Hunts 1 5.

1234567	1752634	Bob	1754632
2135476	—	1564732	1576423
2314567	1674532	1657423	—
3241657	1765423	—	1453726
3426175	—	1463527	1547362
4362715	1473625	1645372	—
4637251	1746352	—	1352467
6473521	—	1362475	1534276
6745312	1372456	1634257	—
7654132	1734265	—	1256374
7561423	—	1267354	1523647
5716243	1275364	1623745	—
Bob	1723546	—	1657243
5172634	—	Bob	1562734
1576243	—	—	—

Bob

<i>Bob</i>	1573426		1267453
1743526	1754362	<i>Bob</i>	
1475362		1532764	1423657
	1372564	1357246	1246375
1342765	1735246		
1437256		<i>Bob</i>	1325476
	1276345	1752364	1234567
1246357	1723654	1573246	
1423675			
	1674253	<i>Bob</i>	
1645273	1762435	1726543	
1462537		1275634	
	1475632		
<i>Bob</i>	1746523	1624735	

The next *Peal* that follows, is 630, which is divided into five Courses, there being three *Bobs* in a Course, and fifteen in the *Peal*, and the Method to be observed in calling of them is this, the first *Bob* before, the second in the middle (that is when you follow the *Treble* in third's place as it comes down call *Bob*) at which *Bob* you will *Dodge* in the middle, with the *Bell* that is in the plain Course, and the third *Bob* the very next *Treble* leading to the second, which is called a *Double Bob*, by reason that there is no leading of the *Hunt* between them, and this is called, one before, one in the middle, and a *Double Bob*; and this Method must be observed throughout the *Peal*.

Grandfire Tripples, 630.

Hunts 1 3.

1234567			
2135476	1246375	1273654	1563247
2314567	Bob	1726345	1652374
3241657	1357264	* Bob	* Bob
3426175	1532746	1354762	1347625
4362715	1756342	1537426	1436752
4637251	1573624	Bob	Bob
6473521	1654723	1346527	1372456
6745312	1567432	1435672	1734265
7654132	Bob	Bob	Bob
7561423	1423576	1753462	1643725
5716243	1245367	1574326	1467352
5172634	* Bob	* Bob	* Bob
1527364	1376254	1362547	1325476
1253746	1732645	1635274	1234567
1726543	Bob	Bob	
1275634	1365742	1324675	
1624735	1637524	1236457	
1267453	Bob	Bob	
1423657			

Observe, That where you see this Mark \* plac'd at a Bob, signifies that every such Bob is the Double Bob, in this and the following Peals.



The next *Peal* that follows is a compleat 700, and the *Bobs* thereof are likewise divided into five parts or Courses, and differs very little from the Method of the 630, there being the same number of Courses, and likewise of *Bobs*; in a Course in this *Peal*, as in that, the Method to be observed for this *Peal* is as follows, the first *Bob* into the *Hunt* (or plain Course,) the second three leadings after the first, and the third two leadings after the second, which finishes the first Course, the same method being observed concludes the *Peal*.

## Grandfire Tripples, 700.

Hunts		106.	
1234567			
2135476	5172634	Bob	1643527
2314567	1527364	1527643	Bob
3241657	1253746	1256734	1234657
3426175	Bob	1724536	1326475
4362715	1764235	1275463	Bob
4637251	1672453	Bob	1576324
6473521	1463752	1436257	1753642
6745312	1647325	1342675	Bob
7654132	1265427	Bob	1562743
7561423	1634572	1465372	1657234
5716243			

<i>Bob</i>	1624375	1367524	1624735
1375624	<i>Bob</i>	1637742	1267453
1736542	1742635	<i>Bob</i>	1423657
<i>Bob</i>	1476253	1453672	1246375
1246735	<i>Bob</i>	1546327	1325476
1427653	1356472	<i>Bob</i>	1234567
<i>Bob</i>	1534627	1726543	
1263457	<i>Bob</i>	1275634	

The next *Peal* in Course is 1008, being the one fifth part of the *Whole*, and it is divided into two Parts or Courses, there being nine *Bobs* in a Course, and the Method to be observed in calling them is this, The first four *Bobs* are before, (according to the same Method as the first two in the 504) the next (being the fifth *Bob*) is at the distance of four leadings at which *Bob* the *Half Hunt* goes into the Plain Course, the next (being the sixth *Bob*) is at the distance of five leadings, (when the same *Bell* is before as was at the fifth *Bob*) and the *Half Hunt* *Dodges* in the middle, and goes out of the Plain Course, the seventh and eighth *Bobs* are both in the middle, at both which *Bobs* the *Half Hunt* *Dodge* in the middle, with the *Bells* that were in the Plain Course, the ninth being a *Double Bob*, is called the next leading into the eighth, and this is called four before

K

into

into the *Hunt*, and out of the *Hunt*, twice in the middle, and a *Double Bob*, the same Method being observed again concludes the *Peal*.

1008, *Grandfire Tripples.*

Hunts 1 4

1234567			
2135476	1342567	Bob	Bob
2314567	Bob	1254673	1257537
3241657	1457362	1526437	1425763
3426175	1543726	* Bob	Bob
4362715	Bob	1473562	1273465
4639251	1476523	1745326	1724359
6473521	1745632	Bob	Bob
6745312	Bob	1436725	1654723
7654132	1462735	1347652	1567432
7561423	1647253	Bob	Bob
5716243	Bob	1462357	1764523
5172634	1742635	1643275	1675332
1527364	1476253	Bob	* Bob
1253746	Bob	1425673	1423647
1726543	1723456	2256537	1246375
1275634	1274365	Bob	1325496
1624735	Bob	1457236	1234567
1267453	1564273	2542763	—
Bob	1652437	—	—
1435276	—	—	—

# The Art of Ringing. 131

The next (unto this) is 1260, or the quarter *Peal*, the *Bobs* whereof, are divided into five parts or Courses, there being five *Bobs* in a Course, and Twenty-five in the *Peal*, the first two are before, the next two in the middle, and a *Double Bob*, (according to the fore-going directions) which finishes the first Course, the same being observed, four times more, finishes the *Peal*, as follows.

1260, or the Quarter *Peal* of Grandfire Tripples.

Hunts 1 5.

1234567		1347526	1365274
2135476	<u>Bob</u>	<u>Bob</u>	<u>1632547</u>
2314567	1275643	1745362	* <u>Bob</u>
3241657	1726534	1473527	1574623
3426175	<u>Bob</u>	* <u>Bob</u>	<u>1756432</u>
4362715	1625743	1562437	<u>Bob</u>
4637251	1267534	1654273	1542736
6473521	* <u>Bob</u>	<u>Bob</u>	<u>1457263</u>
6745312	1543276	1523674	* <u>Bob</u>
7654132	1452367	1256347	1523467
7561423	<u>Bob</u>	<u>Bob</u>	<u>1254376</u>
5716243	1537462	1537246	<u>Bob</u>
<u>Bob</u>	1354726	1352764	1745236
5172634	<u>Bob</u>	<u>Bob</u>	<u>1472563</u>
1576243	1576324	1625374	<u>Bob</u>
1752634	1753642	1263547	1275436
<u>Bob</u>	<u>Bob</u>	<u>Bob</u>	<u>1724563</u>
1564732	1435762		* <u>Bob</u>
1657423			

* Bob	1542673	1346572	1624735
1536743	1456237	* Bob	1267453
1357624	Bob	1527364	1423657
Bob	1365422	1253746	1246375
1564327	1634577	1726543	1325476
1653472	Bob	1275634	1234567
Bob	1435627		

The next part into which this *Peal* is divided is 2520, being the one half part of the whole; the *Bobs* thereof (being forty five in number) are likewise divided into five parts or Courses, there being nine *Bobs*, in a Course, now amongst the different Ways, that may be used in calling the *Bobs* for this *Peal*, we shall only insert this following, as being the truest and Best, now in Practice; the method thereof being thus: the two first *Bobs* are before (as in the *Quarter Peal*) the third into the *Hunt*, at the distance of four leadings; the fourth out of the *Hunt*, at the distance of five leadings; the fifth and sixth *Bobs* are before, (as the two first;) the seventh is in the middle, at the distance of three leadings; from the sixth, the eighth is into the *Hunt*, at the distance of five leadings; from the seventh, and the ninth, and last is a Double *Bob*, (as in the former *Peal*) which finishes the first Course, and this, (in shorter terms) is call'd two before into the *Hunt*, and out of the *Hunt*, two before again, one in the middle, into the *Hunt*, and a double *Bob*, as by the following *Peal* will more plainly be seen.



2520, or the Half Peal of Grandfire  
Tripples.

Hunts 1 7.

<u>1234567</u>			
<u>1327364</u>	<u>1372645</u>	<u>1627345</u>	<u>1765432</u>
<u>1253746</u>	<u>1736254</u>	<u>1263754</u>	<u>1674523</u>
Bob	* Bob	Bob	Bob
<u>1764235</u>	<u>1245763</u>	<u>1674253</u>	<u>1247653</u>
<u>1672453</u>	<u>1427536</u>	<u>1762435</u>	<u>1426735</u>
Bob	Bob	* Bob	Bob
<u>1743652</u>	<u>1725463</u>	<u>1453726</u>	<u>1275436</u>
<u>1476325</u>	<u>1274536</u>	<u>1547362</u>	<u>1724563</u>
Bob	Bob	Bob	* Bob
<u>1673452</u>	<u>1756234</u>	<u>1743526</u>	<u>1536742</u>
<u>1764324</u>	<u>1572643</u>	<u>1475362</u>	<u>1357624</u>
Bob	Bob	Bob	Bob
<u>1635724</u>	<u>1276534</u>	<u>1732465</u>	<u>1756342</u>
<u>1367542</u>	<u>1725643</u>	<u>1374256</u>	<u>1573624</u>
Bob	Bob	Bob	Bob
<u>1765324</u>	<u>1263745</u>	<u>1472365</u>	<u>1764523</u>
<u>1673542</u>	<u>1627354</u>	<u>1743256</u>	<u>1675432</u>
Bob	Bob	Bob	Bob
<u>1752643</u>	<u>1723645</u>	<u>1426753</u>	<u>1574623</u>
<u>1576234</u>	<u>1276354</u>	<u>1247635</u>	<u>1956432</u>
Bob	Bob	Bob	Bob
<u>1367524</u>	<u>1734256</u>	<u>1746253</u>	<u>1542736</u>
<u>1635742</u>	<u>1372465</u>	<u>1472635</u>	<u>1456263</u>
Bob	Bob	Bob	Bob

1752436	1362754	1354762	1753642
1574263	1637245	1537426	1576324
<i>Bob</i>	<i>Bob</i>	<i>Bob</i>	* <i>Bob</i>
1723564	1732654	1734562	1624735
1275346	1376245	1375429	1267453
<i>Bob</i>	<i>Bob</i>	<i>Bob</i>	1423657
1457236	1725346	1746325	1246375
1542763	1273564	1473652	1325476
<i>Bob</i>	<i>Bob</i>	<i>Bob</i>	1234567
1473562	1375246	1537462	---
1745326	1732564	1354726	---
* <i>Bob</i>	<i>Bob</i>	<i>Bob</i>	

Now having gone through the several parts or divisions of this *Peal*, what then remains thereof, is to shew the method, for the whole which is 5040 *changes*; but in regard that there is no certain method known whereby this *Peal* (as to truth) can be Rung, and that the number of *Changes* contain'd therein, being so many that they require so long a time as four hours to perform them in, which being not only very tedious but likewise tiresome for any person to Ring a *Bell* so long, we shall therefore for these reasons suspend what may be expected in reference to this matter save only add for, the satisfaction of those that are desirous to adventure upon so great an undertaking; that the only way that hath been practised is, by making of a Double

*Change*

# The Art of Ringing. 135

*Change* at the end of the half, wherein the *Bells* in second and third places (when *Treble* leads) must lie still, according to the same Method and Rule, as the *Singles* in *Grandfire*, upon five *Bells*) then by observing the same method for the *Bobs* as is before shewn, will double the *Peal* to 5040 *Changes*.

*First Double* { 1325476 } *Last Double* { 1235476 }  
                   { 1324567 }                   { 1234567 }

We shall now proceed to shew the practitioner, some Variety of new *Peals* upon seven *Bells*; but in regard they were never much practised, as being somewhat more difficult than that of *Grandfire Tripples*, we shall not enlarge altogether so much upon any of them, but lay down some few examples of each *Peal*, and so proceed to *Changes* on *Eight Bells*.

*This is a Composition*  
*that wrong the first half may*  
 do

New London Peals,  
upon Seven BELLS.

Compos'd by J. P.

*London Tripples Single Bob Method.*

THE Course of this *Peal* differs very little from the Course of *Colledge Single Bob* upon six Bells, only the additional Bell makes every *Change* a *Tripple Change*. Now the method to be observ'd in Ringing it is this, any two Bells that the *Treble* leaves in the sixth and seventh places, those two Bells continue *dodging* till such time as the *Treble* hath left leading and parted the two Bells that *Dodge* in the middle; that is they make a *Tripple Dodge*, which is three times each, that Bell that follows the *Treble* when it is in fourth's place lies a *Pull* in fifth's place, and then *Dodges* with the Bell that comes up to it, till the *Treble* moves up again and parts them (and then they move up or down as they were going before such *Dodges*) which Course of *Dodging* in the middle, is constantly assign'd  
to

to one *Bell*, from *Bob* to *Bob*, (or throughout the Course ;) and such *Bell* is term'd the second *Hunt* (as the plain Course in *Grandfire*) and that *Bell* that follows the *Treble* when its in second's place lies a *Pull* in third's place, and moves down as does likewise the *Bell* from which the *Treble* takes the lead. And this is the Course or method of Ringing this *Peal* as by the subsequent figures will more plainly appear.

*The Course of London Tripples, Single-Bob Method.*

1234567			
2135476	4253761	2517463	6714352
2314567	2435671	2154736	7641532
3241657	2346517	1257463	7465123
3426175	3264157	1524736	4756213
4362715	3621475	5127463	4572631
4637251	6312457	5214736	5427361
6473521	6134275	2541376	5243716
6745312	1632457	2453167	2534176
7654132	1364275	4235617	2351467
7561423	3162457	4326571	3215476
5716432	3614275	3462751	3124567
5174623	6341725	3647215	1325476
1576432	6437152	6374125	1234567
1754623	4673512	6731452	
7156432	4765321	7613425	
7514623	7456231	7164352	
5741263	7542613	1763425	
5472136	5724163	1674352	
4527316	5271436	6173425	

Now



Now having shewn the manner of Ringing the Course of this *Peal*, the next thing to be observ'd is the manner of making and calling the *Bobs*, the time of calling is the same as in *Grandfire Tripples*, (and likewise the same method must be observ'd in calling for 350 of this *Peal* as in that,) only the manner of making the *Bob* is different, it being after this manner, the *Bell* that is second *Hunt* goes down, and takes lead of the *Treble*, the *Bell* in third's place goes into fifth's place, makes a *Single Dodge*, and then moves up, the *Bell* in sixth place comes down into fourth place, makes a *Dodge* with the *Bell* in fifth's place, and moves down to lead (which *Bell* takes the Course of second *Hunt* and continues so till the next *Bob*;) the *Bell* in fifth's place moves up behind and makes a *Single Dodge*, and the *Bell* in seventh's place lies still a *Whole Pull*, and afterward makes a *Dodge* with the *Bell* that comes up to it. And this is the manner of making the *Bob*, as by the following 350 will plainly appear.

London Tripples 350

Hunts 1 5.

1234567			
2135476	1476235	1436735	<u>Bob</u>
2314567	1742653	1753624	1576432
3241657	1635247	1576342	1754623
3426175	1362574	1324675	1632457
4362715	<u>Bob</u>	1236457	1364275
4637251	1524376	1475632	1657423
6473521	1253467	1746523	1524736
6745312	1476352	<u>Bob</u>	1763425
7654132	1743625	1563724	1674352
7561423	1652347	1657342	1325476
5716432	1563274	1324756	1234567
<u>Bob</u>	1247365	1237465	
5174623	1423756	1456732	
1547263	1765324	1547623	
1452736	1673542	1632745	
1763254	1532647	1367254	
1672345	1356274	1245763	
1354276	1247653	1427536	
1532467			

Note, The Method for Calling the Bobs in the foregoing 350 is the same as in the 350 Grand-ire Tripples.

This Peal of London Tripples, is likewise divided into the same several Parts or Peals as that of

of *Grandfire Tripples*; and the *Bobs* in those *Peals* are likewise divided into *Courses*, (after the same manner as in that) Only the Method for calling the *Bobs* are different. We shall therefore insert only one or two *Peals* more, with the Necessary Directions for others, and so Proceed; and the first is 630, as follows.

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### London *Tripples* 630

*Hunts* 1 6.

**T**He *Bobs* for this 630 are Divided into five *Courses*; there being three *Bobs* in a *Course*, and fifteen in the *Peal*, now the Method to be observed in calling them is this, the first *Bob* is the fourth leading of the *Whole Hunt*, the second, at the distance of three leadings from the first (at both which the *Half Hunt* will *Dodge* in the middle) and the third two leadings, distance from the second which finishes the first *Course* the same Method being observed Concludes the *Peal* as follows.

# The Art of Ringing.

141

1234567			
2135476	1524736	Bob	1726354
2314567	Bob	1753246	1273645
3241657	1746532	1572364	Bob
3426175	1475623	Bob	1437526
4362715	Bob	1426375	1345762
4637251	1456732	1243657	Bob
6473521	1547623	Bob	1256743
6745312	Bob	1236475	1527634
7654132	1274356	1324657	Bob
7561423	1723465	Bob	1576243
5716432	Bob	1542736	1752634
5174623	1536427	1457263	Bob
1576432	1354672	Bob	1325476
1754623	Bob	1376254	1234567
1632457	1346527	1732645	
1364275	1435672	Bob	
1257463			

## 700 London, Tripples.

Hunts 1 3.

THE Next Part of this *Peal*, is a compleat 700 the *Bobs* thereof are likewise divided into five Courses there being three *Bobs* in a Course, and fifteen in the *Peal*, and the Method to be observed in calling them is thus, the first *Bob* (in the *Peal* here *Prick't*) is the third leading

leading of the whole *Hunt*, at which *Bob* the *Half Hunt*, comes into the plain Course, the second *Bob* is at the distance of four leadings, from the first, whereby the *Half Hunt*, is call'd out of the plain Course, and the third *Bob* is at the distance of three leadings, from the second at which *Bob* the *Half Hunt* will be before (as in the 350) and this finishes the first Course of the *Peal*; the same Method must be continued to the end of the same, as follows.

1234567			
2135476	<i>Bob</i>	<i>Bob</i>	<i>Bob</i>
2314567	1245376	1364257	1632745
3241657	1423567	1632475	1367254
3426175	<i>Bob</i>	<i>Bob</i>	<i>Bob</i>
4362715	1736524	1624357	1372645
4637251	1375642	1263475	1736254
6473521	<i>Bob</i>	<i>Bob</i>	<i>Bob</i>
6745312	1356724	1537462	1762345
7654132	1537642	1354726	1673254
7561423	<i>Bob</i>	<i>Bob</i>	<i>Bob</i>
5716432	1576324	1347562	1435276
5174623	1753642	1435726	1342567
1576432	<i>Bob</i>	<i>Bob</i>	<i>Bob</i>
1754623	1234657	1457362	1325476
1632457	1326475	1543726	1234567
1364275			



*For 1260 London Tripples.*

**T**He next is 1260 being the quarter Part of this *Peal*; which is divided into five Courses, and four *Bobs* in a Course, now the Person designed to call the *Bobs*, having pitcht upon any *Bell* for *Half Hunt* must observe the following Method, the two first *Bobs* of each Course are before (as in the 350) the third *Bob*, is at the distance of four leading from the second (that is when the *Half Hunt* follows the *Treble*, in thirds place as it comes down to lead, call *Bob*) and the fourth *Bob* is at the distance of four leadings, from the third (the *Half Hunt* being before as at the first two *Bobs*) and this finishes the first Course, the same Method being observed, four times more concludes the *Peal*.

*For 2520 London Tripples.*

**T**His *Peal* of 2520 is divided into five Courses, there being nine *Bobs* in a Course and forty five in the *Peal*; to Ring which observe the following Method, the first *Bob* must be call'd when the *Treble* is in seconds place, and the *Half Hunt* follows, it in third's (at which *Bob* the

*Half*

*Half Hunt* will *Dodge* in the middle and then moves up) the second and third *Bobs* are at the distance of five leadings each, so that whatsoever *Bell* is before at the first *Bob*, the same *Bell* must be before at the second and third *Bob*, the fourth is at the distance of two leadings, from the third, at which *Bob* the *Half Hunt* will be before fifth, the sixth and seventh are all of them at the distance of five leadings, each the *Half Hunt* being before as at the fourth *Bob*, the eighth *Bob* is at the distance of three leadings, from the seventh, at which *Bob* the *Half Hunt* is call'd into the plain Course, and the ninth and last is a *Double Bob*, that is the very next leading of the whole *Hunt*, and this finishes the first Course, the same Method must be observed to the end of the *Peal*.

For further Information observe the following Table wherein is set down the *Bobs*, taken from the five several leadings of the Course, and numbred as they follow each other so, that by taking an observation of any of those *Bobs*, you may begin any *Peal* whatsoever.

The Table

I	I 5 4 7 2 6 3	I 4 2 3 5 6 7
I	4 5 2 7 3 6	4
2	I 6 4 3 7 2 5	I 7 4 6 5 3 2
I	4 6 7 3 5 2	I 4 7 5 6 2 3
3	I 2 4 5 3 7 6	5
I	2 4 5 3 7 6	I 3 4 2 6 5 7
		I 4 3 6 2 7 5

London Tripples Double Bob Method.

**I**N this Peal of Double Bob Tripples, the Course differs very little from the Method of College Double Bob on six Bells; the Dodging of the Bells both before and behind, being the same in this as in that, viz. till the Treble Parts them, either behind or before; so likewise every Bell that meets the Treble under the fifth's place, goes no higher but lies a whole Pull in fifth's place, and then moves down to lead; except when the Treble leads, (the Bell that is in the plain Course goes no higher than into the third's place,) and then the two Bells in fourth and fifth's places make a Single Dodge: and observe, That when the Bells are Dodging

L

before,

before, the rest go no lower than into third's place, where they lie a whole *Pull*, and then move up again; and that *Bell* which first takes lead of the *Treble*, either in the *Course* or after a *Bob*, is the plain *Course* or second *Hunt*, and continues only to *Dodge* before throughout the *Course*, (or from *Bob* to *Bob*) as by the proceeding *Course* of this *Peal*, may plainly be seen.

*The Course of London Tripples Double  
Bob Method.*

2143576	6247513	5247163	1726354
2415367	2645731	2541736	1273645
4251376	6254371	5214763	2137654
2453167	2653417	5127436	2316745
4235617	6235147	1524763	3261754
2436571	2631574	1257436	2367145
4263751	6213547	2175463	3276415
2467315	6125374	2714536	2374651
4276135	1623547	7241563	3247561
2471653	1263374	2745136	2345716
4217635	2156347	7254316	3254176
4126753	2513674	2753461	2351467
1427635	5231647	7235641	3215476
1246753	2536174	2736514	3124567
2164735	5263714	7263154	1325476
2617453	2567341	2761345	1234567
6271435	5276431	7216354	
2674153	2574613	7123645	

## *The Art of Ringing.*

147

Now having shewn the manner of Ringing the Course of this *Peal*, the next thing is the Method of making the *Bobs*, (which is to be made at hand, in this as well as the foregoing *Peal*;) and after this manner the *Bell* in fourth's place moves down, and takes the second *Hunts* Course, the *Bell* in third's place (which was plain *Hunt*) moves up into fifth's place, the *Bell* in sixth place, moves down into fourth's place, and makes a *Dodge* with the *Bell* that is in fifth's place, the *Bell* in fifth's place goes behind, and the *Bell* in seventh's place lies still. Or in shorter terms this; the *Bells* in fourth's and sixth's places move down, and third and fifth's places moves up, and seventh's place lies still; and this is the manner of making a *Bob* in this *Peal*, which is divided into the same Parts as the two former, and the *Bobs* for those several *Peals*, are likewise divided into Courses, but to Ring the following 350, the Method for the *Bobs* is the same as in the 350 of *Grandfire Tripples*.



## 350 London Tripples, Double Bob Method.

Hunts I 7.

1234567			
2143576	Bob	1647352	Bob
2415367	1732465	1463725	1765243
4251376	1374256	1345267	1672534
2453167	1436572	1432576	1264375
4235617	1345627	1246735	1623457
2436571	1537246	1427653	1367524
4263751	1352764	Bob	1635742
2467315	1234657	1754632	1562437
4276135	1326475	1576423	1654273
2471653	1635724	1653274	1463752
4217635	1367542	1562347	1647325
4126753	Bob	1257463	Bob
1427635	1743526	1524736	1726354
1246753	1475362	1456327	1273645
1623547	1542673	1543672	1325476
1265374	1456237	1352746	1234567
1524763		1537264	
1257436			

630 Double Bob Tripples.

Hunts 1 7.

THIS 630 is divided into the same number of *Bobs* and *Courses*, as the foregoing 630, the Method to be observ'd in the *Bobs* is thus; the first *Bob* is the fifth leading of the *Hunt*, the *Half Hunt* being then in seventh's place, and the next at the distance of four leadings from the first, at which *Bob* the *Half Hunt* must be in fifth's place and so moves up behind: or thus, the fifth leading of the *Hunt*, and the fourth leading, which must be continued to the end of the *Peal*.

1234567					
1427635	1436275	Bob	1263574		
1246753	Bob	1425367	1625347		
1623547	1534672	1243576	Bob		
1265374	1356427	Bob	1256437		
1524763	Bob	1642375	1524673		
1257436	1563247	1463257	Bob		
1726354	1652374	Bob	1325476		
1273645	Bob	1634527	1234567		
Bob	1456273	1365472			
1342657	1542637	Bob			

## 700 Double Bob Tripples.

Hunts 1 6.

THE 700 is divided into the same number of Bobs and Courfes, as the 700 of Single Bob Tripples, and the Bobs are at the same distance the one from the other in this Peal as in that; viz: the first Bob at the fifth leading of the Hunt (the Half Hunt being in the Middle) the second at the distance of two leadings from the first, and the third at the distance of three leadings, from the second, and this Method must be continued throughout the Peal.

1234567			
1427635	Bob	1576423	1257346
1246753	1432756	Bob	1523774
1623547	1347265	1245376	Bob
1265374	Bob	1423567	1235674
1524763	1473625	Bob	1326547
1237436	1746352	1574236	Bob
1726354	Bob	1752463	1453762
1273645	1537246	Bob	1547326
Bob	1352764	1527643	Bob
1342657	Bob	1256734	1325476
1436275	1743526	Bob	1234567
Bob	1475362	1372456	
1724536	Bob	1734265	
1275463	1754632	Bob	

The

*The Method for 1260 Double Bob  
Tripples.*

**T**O Ring 1260 of this *Peal*, the same Method must be observed in the *Bobs*, as in the 1260 of *Grandfire Tripples*, viz, two before, two in the middle (that is *Dodging* with the plain *Hunt*) and a *Double Bob*, which Method with twenty five *Bobs* compleats the *Peal*.

To Ring 2520 of this *Peal*, the first four *Bobs*, are before the next into the *Hunt* at the distance of four leadings, the next is out of the *Hunt*, at the distance of four leadings the next (being the seventh *Bob*) is four leadings from the sixth, the *Half Hunt* being in seventh's place, the eight *Bob* is at the distance of three leadings, from the seventh (the *Half Hunt* being behind as before) and the ninth and last is a *Double Bob*, which finishes the first *Course*; the same Method must be observed to the end of the *Peal*.

*The Table of Bobs taken from the five leadings of the Course.*

I									
I	4	6	2	5	7	3	I	7	5
I	6	4	5	2	3	7		3	2
								4	6
			2				I	7	3
I	6	5	2	7	3	4	I	3	7
I	5	6	7	2	4	3		4	2
								5	5
			3				I	3	4
I	5	7	2	3	6	4	I	4	3
								6	2
								7	5

*London Tripples Court Bob Method.*

**T**HE Course of this *Peal*, is little different from *Court Bob* on six *Bells*, except the lying still (in this) in fifth's place and a *Double Dodge*, being made behind after the *Treble* hath left leading, the *Bell* that is in the plain Course or second *Hunt* in this *Peal* (which in the following Course is the seventh) continues to move down into third's place (where it lies a whole *Pull*) and then up behind where it always *Dodges* with the *Bell* it meets there till the *Treble* comes up and parts them, and any two *Bells* that the *Treble* (when it comes from behind) leaves in the sixth and seventh's places, such



such two *Bells* are only to make a *Single Dodge*, and are afterwards parted by the second *Hunt*, the *Dodging* before in this *Peal*, is the same as on six *Bells*, only in this there is two *Bells* lead before a *Dodge* is made, and the third *Bell* that leads makes the *Dodge*, and afterwards leads a whole *Pull*, and then makes a *Dodge* with the next *Bell* that comes down to it, and that *Bell* that follows the *Treble* when it is in fourth's place lies a *Pull* in fifth's place, and then moves down to lead, and that *Bell* that follows the *Treble*; when it is in second's place goes up into fifth's place, and makes a single *Dodge*, and afterwards lies a *Pull* in fifth's place, before it moves down as by the following *Course* of this *Peal*; may be seen.

*The Course of London Tripples, Court Bob Method.*

1234567	6143725	5276143	5324671
2135476	1634275	2571634	3542761
2314567	1362457	5217643	3457216
3241576	3164275	5126734	4375126
3425167	3612457	1562374	3471562
4352617	6321475	1653247	4317526
3456271	6234157	6152374	4135762
4365721	2643517	6513247	1453672
4637512	6245371	5631274	1546327
6473152	2654731	5362147	5143672
4671325	2567413	3526417	5416327
6417352			

4561372		2617435		2546137		3517264	
4653127		2164753		5264317		3152746	
6435217		1246573		2563471		1325476	
4632571		1425637		5236741		1234567	
6423751		4126573		5327614			
6247315		4215637		3572164			
2674135		2451673		5371246			
6271453							

The next thing to be observed is the manner of making a *Bob* in this *Peal*, and that is, the *Bell* that happens in third's place when *Bob* is call'd lies a whole *Pull*, and then moves down to lead (as in *Grandfire Tripples*) and that *Bell* which is second *Hunt*, instead of going behind goes no higher than into fifth's place, where it makes a *Double Dodge*, and afterwards lies a *Pull* in fifth's place, before it moves down to lead, so that the *Bob Changes* in this *Peal*, are made after the same manner as those of *Grandfire Tripples*, and to Ring 350 of this *Peal*; every time the *Half Hunt* comes before and the whole comes down to take the lead, of the same, a *Bob* must be made according to the foregoing directions, as in the following 350 will plainly appear.

# The Art of Ringing.

155

## 350 Court Bob Tripples.

Hunts 1 3.

1234597	1246573	1327564	1764532
2135476	1425637	1627345	Bob
2314567	Bob	1263754	1342657
3241576	1357261	1563247	1436275
3425167	1532746	1652374	1754452
4352617	1432567	1752643	1374625
4356271	1345276	1576234	1274356
4365721	1745362	Bob	1723465
4637512	1473526	1364725	1623754
6473152	1273465	1637452	1267345
4671325	1724356	1537624	1467253
6417352	1574263	1356742	1642735
6143725	1752436	1456327	Bob
1634274	Bob	1543672	1325476
1362457	1376542	1743526	1234567
1562374	1735624	1475362	
1653247	1235746	1675423	

## 630 Court Bob Tripples.

Hunts 1 5.

THE next Part of this *Deal* is 630, which is divided into five Courses of three Bobs

*Bobs* in a Course, the Method whereof is as follows, the first *Bob* is when the *Half Hunt* follows the *Treble* (as it comes down) in second's place (after the same manner as calling into the plain Course in *Grandfire*) the second *Bob* is at the distance of three leadings, from the first, whereby the *Half Hunt* goes into the plain Course, and the third is a *Double Bob* that is the very next leading to the second, which *Bob* finishes the first Course, the same must be continued to the end of the *Peal* as follows.

<u>1234567</u>			
1634275	* Bob	1526374	1645327
1362457	1475263	Bob	1463572
1562374	1742536	1624357	Bob
1653247	Bob	1263475	1652473
1453672	1456732	* Bob	1564237
1546327	1547623	1735642	Bob
1246573	Bob	1376524	1467253
1425637	1743652	Bob	1642735
Bob	1476325	1754326	* Bob
1357264	* Bob	1573462	1325476
1532746	1265734	Bob	1234567
Bob	1627543	1372456	
1236754	Bob	1734265	
1327645	1253647	* Bob	

700 Court Bob Tripples.

Hunts 1 3.

THIS Peal of 700 is divided into five Courses, of three Bobs in a Course, as follows, the first Bob is before (as in the 350) the second is a Double Bob being the very next leading to the first, and the third and last Bob of this Course, is at the distance of four leadings from the second, the Half Hunt being before as at the first Bob, and this Method with five Courses finishes the following Peal.

1234567				
1634275	1243657	Bob	1257364	
1362457	Bob	1324675	1523746	
1562374	1347625	1236457	Bob	
1653247	1436752	* Bob	1376254	
1453672	Bob	1567342	1732645	
1546327	1372456	1653724	Bob	
1246573	1734265	Bob	1365724	
1425637	* Bob	1354762	1637542	
Bob	1645327	1537426	* Bob	
1357264	1463572	Bob	1472356	
1532746	Bob	1346572	1743265	
* Bob	1362547	1435627	1325476	
1426375	1635274	* Bob	1234567	



*For 1260 Court Bob Tripples.*

**T**His 1260 is divided into five Courses, of four *Bobs* in a Course. The Method in calling is thus, the first *Bob* in sixth's place, the second into the plain Course, at the distance of five leadings from the first, and the third out of the plain Course, at the same distance from the second, as the second was from the first, the fourth and last *Bob* is at the distance of three leadings from the second, at which *Bob* the *Half Hunt* *Dodges* in the Middle, with the *Bell* that was in the plain Course, and this finishes the first Part or Course of the *Peal*; the same Method must be observed to the end.

*For 2510 or the Half Peal of Court Bob Tripples.*

**T**HE three first *Bobs* in every Course of this *Peal*, are call'd by the same Method as the three first in the foregoing 1260, the fourth *Bob* is at the distance of five leadings from the third, the *Half Hunt* being in third's place, the next *Bob* is before at the distance of four leadings, the next (being the sixth *Bob*) is into the plain Course at the distance of four leadings, the

## The Art of Ringing.

159

the seventh *Bob* is out of the plain Course, at the distance of five leadings, the eighth *Bob* is before at the distance of two leadings, and the ninth and last is a *Double Bob*, which finishes the first Course, and this with Courses concludes the *Peal*.

*A Table of the Bobs taken from the five leadings of the Course.*

1	1 6 4 7 3 5 2	1 3 4 5 7 6 2
2	1 4 6 3 7 2 5	4
3	1 5 2 7 6 4 3	1 2 6 7 4 5 3
4	1 2 5 6 7 3 4	1 6 2 4 7 3 5
5	1 4 3 7 5 2 6	5
6	1 5 3 2 7 4 6	1 3 5 7 2 6 4
7	1 6 4 7 3 5 2	1 5 3 2 7 4 6

### London Tripples Treble Bob Method.

**T**HE Treble in this *Peal*, hath a *Dodging* Course after this manner; first it makes a *Single Dodge* before, then it *Hunts* into the fourth's place, and makes a *Dodge* back again into third's place, and then *Hunts* up into fifth's place, where it lies a whole *Pull*, and then *Hunts* behind, and as soon as it comes behind it

it *Dodges* back into sixth's place and afterwards lies a whole *Pull* behind, and then *Hunts* down after the same Manner as it *Hunted* up: when the *Treble Dodges* in third and fourth's place the two foremost *Bells* make a *Single Dodge*, and the *Bell* in fifth's place lies still, when it moves out of the fifth's place, *Hunting* up the four foremost *Bells Dodge* and the *Bell* in fifth's place lies still; when it lies behind, the foremost *Bells* make another *Dodge*; when it *Dodges* before the *Bell* in third's place lies still (and afterwards moves down to lead) when it leads the four hindmost *Bells* make a *Single Dodge*, as by the subsequent figures will appear.

*The Course of Treble Bob Tripples.*

1234567				
2143576	3756421	1465237	4357612	1267354
1245367	7365412	1642573	3475621	2176534
2154376	7634521	6124537	4357261	1275643
2513467	6743512	1625473	3475216	1726534
5231476	7634152	6152437	3742561	1635724
2513746	6743125	6514273	7324516	1367542
5231764	6471352	5641237	3742156	1745362
5327146	4617325	6514327	7324165	1473526
3572164	6471235	5641372	7231456	1325476
5327614	4617253	5463127	2713465	1234567
3572641	4162735	4536172	7231645	
3756214	1426753	5463712	2713654	
7365241	4162573	4536721	2176345	

The

The Course of this *Peal* by reason that the *Treble* hath a *Dodging* Course is 140 *Changes*, and that *Bell* that is plain, or second *Hunt* always *Dodges* in the Middle, every time *Treble* leads (and *Dodges* before) and then moves down to lead; the *Bobs* for this *Peal*, must be call'd just as *Treble* comes to *Dodge* before with the *Half Hunt*, at which the *Bell* in third's place must lie still a whole *Pull*, and then moves up into fifth's place, and *Dodges* back again into fourth's place, and afterwards lies a *Pull* in fifth's place, and then moves down to lead; the two hind *Bells* continue *Dodging*, till the *Treble* comes to *Dodge*, in third's and fourth's place, and then that *Bell* which was first behind (which was the second *Hunt* before the *Bob*) moves down and this *Peal* with five *Bobs* (being call'd according to the Method for any of the foregoing 350) will go 700 *Changes* as by the preceeding 700 will appear.

700 *Treble Bob Tripples.*

*Hunts* 1 3.

1234567

2143576

1245367

2154376

2513467

5231476

2513746

5231764

5327146

3572164

5327614

3572641

3756214

M

7365241

7365241	4162735	1745362	1356724
3756421	1426753	1473526	1537642
7365412	4162573	Bob	Bob
7634521	1465237	1364257	1347562
6743512	1642573	1632475	1435726
7634152	1275643	Bob	Bob
6743125	1726534	1372645	1325476
6471352	1635724	1736254	1234567
4617325	1367542	Bob	
6471235			
4617253			

## The Table for this Peal.

1472653	1463725
1746235	4
2	1723456
1236754	1274365
1327645	5
3	1364257
1647352	1632475

New



New London Triples Compos'd By

J. D.

THE Course of this Peal is the same as Grandfire Triples, excepting that when the Treble leaves the sixth place, Hunting up and fifth's place Hunting down a Single Dodge, is always made by the two foremost Bells, the Bell then happening in third's place, lying still; the Motion or Course of the second Hunt, is the same (and likewise the Manner of making the Bobs) in this Peal as in that.

For 350.

Hunts I 7.

1234567

2135476

2314567

3241657

3426175

4362715

3467251

4376521

4735612

7453162

4751326

7415236

Bob

7142563

1745236

1472563

1342657

1436275

1546723

1457632

1247365

1423756

1643572

1465327

Bob

1758462

1574326

1684237

1562473

1352746

1537264

1457623

1546732

7624321

1256374

1528647

Bob

1736522

1375642

1285467

1324576

1634752

1367425

1537246

M 2

1352764

ew

1352764	1645372	1652437	1423765
1432675	1265734	Bob	1247356
1346257	1627543	1724653	1627534
Bob	1367452	1276437	1265743
1762345	1634725	1526347	1325476
1673254	1564273	1253674	1234567
1463527			

The Course of this *Peal*, is the same as the former excepting that, that *Bell* which the *Treble* leaves in fifth's place, lies there a whole *Pull* and then moves down to lead, and that *Bell* which is second *Hunt*, is always *Dodging* behind (when the *Treble* comes to lead and leaves leading) throughout the whole Course or from *Bob* to *Bob*, and this with five *Bobs* goes 350, as follows.

1234567		1423763	
2135476	7415362	Bob	1637452
2314567	7143526		Bob
3241657	1734256	1357264	1342657
3426175	1372465	1532746	1436275
4362715	1572346	Bob	Bob
3467251	1753264	1376542	1325476
4376521	1453726	1735624	1234567
4735612	1547362	Bob	
7453162	1247536	1364725	
4751326			

The *Bobs* in this *Peal* are made after the same manner as in the former, and to Ring 700 of either of these *Peals*, is first into the *Hunt*, the second out of the *Hunt*, at the distance of three leadings, the third at the distance of two leadings from the second, being the same as for 700 *Grandfire Tripples*.

In this *Peal* the *Bell* that is in the plain Course, always *Dodges* in the middle, and afterwards lies a *Pull* in fifth's place, before it moves down to lead, and then every *Bell Hunts* till the Leading of *Treble*, at which the *Bell* in third's place must lie still, and a *Double Dodge* is made by the four hindmost *Bells* (like a *Bob* in *Grandfire Tripples*) but at a *Bob* every *Bell Hunts*, till the *Treble* hath left leading, and then the four hind *Bells* make a *Single Dodge* as in the following 350.

*Hunts* 1 3.

1234567					
2135476	7615243	5237461	1645732	1376542	
2314567	7162534	5324716	1467523	1735624	
3241576	1765243	3542176	Bob	Bob	
3425167	1672534	3451267	1342657	1357264	
4352617	6175243	4315627	1436275	1532746	
4536271	6712534	4136572	Bob	Bob	
5463721	7621543	1435627	1364725	1325476	
5647312	7265134	1346572	1637452	1234567	
6574132	2756314	1275364	Bob		
6751423	2573641	1723546			

M 3

To

To Ring 630 of this *Peal*, with five Courses and two *Bobs* in a Course, any *Bell* may be *Half Hunt*, and the first *Bob* is when the *Half Hunt* follows *Treble* as it goes down to lead, after the same manner as calling into the *Hunt* in *Grandfire Tripples*, and the next is *Dodging* in the Middle, at the distance of four leadings from the first, and this with ten *Bobs* will go 630.

To Ring 700 observe to call the first *Bob*, before the second *Bob* the third leading from the first, and the third two leadings from the second, and this with fifteen *Bobs* will go 700 *Changes*.

In this *Peal* the *Bells Dodge* before as in *Double Bob Tripples*, and the Motion or Course of the second *Hunt*, is first to lie in third's place, and afterwards to *Dodge* in the Middle with the next *Bell* that comes down to it (the *Bells* hapening in fifth's place lying still) till such time as the *Treble* comes down and parts them, at such time as they cease to *Dodge* in the Middle, they likewise cease *Dodging*, before the *Dodging* behind, is the same as in *Single Bob Tripples*, and likewise the Manner of making and calling the *Bobs*, the same in this *Peal* as in that.

350 Hunts I 3.

1234567			
2135476	6312457	1524736	1735624
2314567	6134275	Bob	Bob
3241657	1632457	1342657	1357264
2346175	1362475	1436275	1532746
3264715	1763425	Bob	Bob
2346751	1674352	1364725	1325476
3264571	1576432	1637452	1234567
2346517	1754623	Bob	
3264157	1257463	1376542	
3621475			

630 Hunts I 3.

TO Ring 630 of this Peal; with five Courses and three Bobs in a Course, the first Bob is before the second in sixth's place at the distance of three leadings; the third is a Double Bob, the Half Hunt being before as at the first Bob, and this Method with fifteen Bobs goes 630 as follows.

1632457			
1364275	1524736	1624537	1735468
1763425	Bob	* Bob	Bob
1674352	1342657	1342765	1452763
1576432	1436275	1437256	1547236
1754623	Bob	Bob	* Bob
1257463	1374526	1526374	1374652
	M 4		1736425



1736425	1724653	1635742	* Bob
Bob	1276435	* Bob	1325476
1367245	* Bob	1356247	1234567
1632754	1367524	1532674	
Bob			

Note the last two Bobs are the two last Bobs of the last Course.

The great variety of *Peals* that are to be prick'd upon seven *Bells*, being of themselves enough to compleat a volume, may perhaps seem but tedious to the Learner, we shall therefore prick no more examples thereof, but refer the Practitioner to *Changes* on eight *Bells*.

### Of Changes on eight Bells.

**C**Changes upon eight *Bells* are seldom or never Rung unless it be a five, six, or seven *Bell Peal*, that is Rung thereon; a five *Bell Peal* that is Rung upon eight, is by laying three of the eight *Bells* behind, and the most Musical to lie behind is 218, 148, 418, 248, 468, 348, 648, 548, 864, 241, 321, and 135, to be laid behind and first and third to Dodge throughout the *Peal*, and also 184, to be laid behind, and to go the fixes at *Half Pulls*, thus 814, 841, 481, 418, 148, 184,

184, 814, &c. and so on to the end of the *Peal*, which is very good Musick; the most Musical to be laid behind, in a sixth *Bell Peal*; are 48, 68, 18, or 41, or the *Peal* to be Rung on the six foremost *Bells*; and the seventh and eighth to *Dodge* thus, 87, 78, 87, &c. throughout the *Peal*, makes exceeding good Musick; a seven *Bell Peal* is always Rung upon the seven foremost *Bells*, the Tenor always lying behind to cover the *Peal*.

There is likewise for the Diverſion of those that cannot Ring any compleat *Peals* upon five, six, or seven *Bells* at *Half Pulls*, *Changes* to be Rung call'd set *Changes*, wherein the *Bells* may go round three four or more times in a *Change*, and the chief thing to be observ'd therein, is the placing the *Bells* either fifth's or third's; to place them fifth's, fourth must *Hunt* behind the seventh, the third behind the sixth, and the second behind the fifth, and then they will lie in this Order, 15263748, and here are four concords to be regarded in the *Peal*, the first is 15, the second 26, the third 37, and the fourth 48, these may goe the Method of any *Peal* upon four *Bells*, by observing to *Hunt* them in their order, that the two first notes of every concord, may constantly attend on each other; for example, admit they were to go the twenty four *Changes*, first 15, must *Hunt* up over the 26  
in

in which it makes four *Changes*, for first the fifth must *Hunt* over the second, thus, 12563748 then the first must follow it thus 21563748 then the fifth moves over the sixth 21653748 then the first must follow it thus, 26, 15, 37, 48, here the two concords have made a *Change* and in this manner 15 must *Hunt* over 37, and 48, and so they are to *Change* throughout the *Peal*, or again by placing thirds, the second and fourth must *Hunt* up, or 357 must *Hunt* down and then they will lie third's thus, 13572468: here are also four concords to be regarded, that is, 13, 57, 24, and 68, these may go any *Peal* moving after the same manner as is before shewn, by which great variety of excellent and Musical *Changes* may be *Rung*, in *Ring*ing which they will lie, sometimes third's, sometimes fifth's and sometimes third's and fifth's, when they lie fifth's thus, 15263748, or third's and fifth's thus, 15372648: tis then most pleasant and excellent Musick, to clam them, that is the two notes of each concord to strike together, and if they be clam'd true the eight *Bells* will strike like four, but with far greater Musick and Harmony they may clam two or three bouts and then open again, or clam one bout and strike open the next, observing when they clam, that the four biggest notes of the concords must keep the

the true compass and distance of four *Bells*, and the four small notes of the concords must observe to *Pull*, so as to strike exactly at the same time as the biggest, and when they open again, to open in the true and exact Compass of eight *Bells*, and then to reduce the *Bells* into their places, again *Hunt* 7 6 5 up or 2 3 4 down, and this will bring the *Bells* round and into their proper places again.

*Bob Major Quadruples and Tripples.*

**I**N this *Peal* all the *Bells* have a direct *Hunting* Course, till such time as the *Treble* leads, and then the *Bell* in second's place lies still, and the other six make a single *Dodge*. By this Method, it will go 1 1 2, but by making of *Bobs* it will go 2 2 4, 3 3 6 or 6 7 2: at the *Bob* the *Bell* in fourth's place lies still, and the other four *Dodge*.

12345678			
21436587	57381624	42638175	15372846
24163857	53718264	46283715	<i>Bob</i>
42618375	35172846	64827351	12578264
46281735	31527486	68472531	31752846
64827153	13254768	86745213	37125486
68472513	13527486	87654123	73214563
86745231	31254768	78561432	72341658
87654321	32145678	75816342	27436185
78563412	23416587	57183624	24763815
7836142	24361857	51738264	42678351
			46287531

46287531	86541237	51836742	<i>ſyc.</i>
64825713	85614327	15387624	—
68452173	58163472	15836742	

To Ring 224, every time the *Half Hunt* *Dodgeth* behind a *Bob* must then be made, the fourth may the *Half Hunt* and second the quarter *Hunt*, or others at pleasure.

To Ring 336 every time the *Half* and *Quarter Hunts Dodge* together behind, a *Bob* be must made.

To Ring 672 every time the *Half Hunt* *Dodges* behind a *Bob* must be made, except when the *Quarter Hunt* *Dodges* there with it, and then not.

### *Imperial Bob.*

**I**N this *Peal* the *Treble* hath a *Dodging* Course, first before, then in third and fourth's place, then in fifth and sixth places, and lastly behind, the two first and two last *Bells*, always *Dodge* untill the *Treble* parts them, in the mean time, the two *Bells* that lie next to those *Dodging* continue to lie still one *Pull* and *Dodge* the next, and so by turns untill the *Treble* hinders them, the two *Bells* in fifth and sixths places when *Treble* is behind, and also those in third and fourth's places.



# The Art of Ringing.

173

places, when it is before *Dodge* likewise till *Treble* hinders them; by this Method, it will go 224, and by making of *Bobs* it will go 448, 672 or 1344. The Method of making the *Bob*, is the same as in the former *Peal*.

12345678

21436587

12346578

21435687

24136578

42315687

24135678

42316587

24361578

42635187

24631578

42365187

24635817

42368571

24365817

42638571

24365871

42638517

24635871

42368517

24638157

42561875

24368157

42631875

24613857

42168375

24618357

42163875

41268357

14623875

41263857

14628375

14263857

16847253

16482735

18765432

*Bob*

17864523

16573824

*Bob*

15678342

17352648

17536284

13274586

13725468

12438765

12347856

14826357

14283675

18645273

18462537

16587432

*Bob*

15684723

18753624

*Bob*

17856342

15372846

15738264

13254768

13527486

12436587

12345678

To Ring 448 every time the *Half Hunt* *Dodges* behind, a *Bob* must then be made as in this here prick'd, where second is the *Half Hunt*.

To Ring 672 every time the *Half* and *Quarter Hunts Dodge* together behind, a *Bob* must then be made.

To

To Ring 1344 every time the *Half Hunt* *Dodges* behind a *Bob* must then be made, except when the *Quarter Hunt* *Dodges* there with it and then not; the second and fourth may be *Half* and *Quarter Hunts* or others at pleasure.

London *Bob Royal*, By J. D.

**I**N this *Peal* the two *Bells* that the *Treble* leaves in seventh and eighth places, those two *Bells* *Dodge* and continue *Dodging* till it comes up again and parts them, every *Bell* that meets the *Treble* under the sixth place, goes no higher but lies a *Pull* in sixth place and then moves down to lead (except at a *Bob* and then the *Bell* in sixth place (when *Bob* is call'd) moves up and the *Bell* in seventh moves down) by the a fore said Method (without a *Bob*) it will go 112, but by making of *Bobs* it will go 224, 336 or 672.

The Course of *Bob Royal*.

12345678			
21436587	35867412	14328765	15237864
24163578	38576142	13482756	16847253
42615387	83751624	15762438	18674235
46251378	87315642	17526483	13254687
64523187	78136524	18436572	12345678
65432817	71863542	14863527	
56348271	17685324		
53684721	16758342	12573846	

To Ring 224 of this *Peal* every time the *Half* is in seconds place going up or in thirds place coming down, and the whole *Hunt* lead, a *Bob* must then be made according to the foregoing directions.

To Ring 336 of this *Peal* every time the *Half Hunt* is in third's place coming down, and the whole *Hunt* leads is warning for a *Bob*, to be made as aforesaid.

To Ring 672 you must make use of a *Quarter Hunt*, and every time the *Half Hunt* is in second's place going up or in third's place coming down and the *Quarter Hunt* *Dodging* behind, is warning for *Bob* to be made, the second in either of these *Peals* may be made *Half Hunt*, and fourth the *Quarter Hunt*, or others at pleasure.

There are a great Number of several *Peals* to be prickt upon eight *Bells*, but our design being not to stuff this Book with what is altogether unpractis'd, we shall therefore forbear to set down any farther examples, of what is not in the least at this time, nor never was in Practice which will only wast both Paper and time, and refer to *Changes* on nine *Bells*, for the benefit and advantage of those Persons, as have an Opportunity of practising the same.

# Of Quadruples, or Changes, on Nine BELLS.

*Commonly call'd Cators.*

**T**HE ordinary Course of Ringing this *Peal* of *Quadruples* or *Cators* is the same as that of *Grandier Tripples*, there being (besides the *Treble*) one *Bell* that is plain or second *Hunt* and hath the same Course in this *Peal* as in that, every *Bell* in this *Peal* hath a *Hunting* Course, till such time as the *Treble* leads, and then the *Bell* in third's place lies still, and the other six make a *Single Dodge* by this Method, it will go 126 and by making of *Bobs* it will go 181440, and then by making a *Tripple Change*, it will double the *Peal*, to 362880 being the compleat number of *Changes* on nine *Bells*.

This *Peal* of *Cators* is divided into several Parts or *Peals*, in which the chief thing to be observ'd is the Method of calling the *Bobs*, they being in this *Peal* (as well as *Tripples*) divided into Parts or Courses, as the length of each *Peal*, will admit, but that we may proceed gradually in this as all other *Peals*; we shall begin first with the Course of this *Peal*, and then proceed

to

# The Art of Ringing.

177

to give the necessary directions for others.

## The Course of Grandfire Caters.

123456789			
213547698	152739486	791826543	869413257
231456789	125374968	719285634	896142375
324165879	215739486	172958364	981624735
342618597	251374968	127593846	918267493
436281957	523147698	217958364	192876543
463829175	532416789	271593846	129785634
648392715	354261879	725139486	182694735
684937251	345628197	752314968	128967453
869473521	436582917	573241698	162483957
896745312	463859271	537426189	126849375
987654132	648395721	354762819	142365879
978561423	684937512	345678291	124638597
795816243	869473152	436587921	132547698
759182634	896741325	463859712	123456789
571928364	987614235	648395172	
517293846	978162453	684931527	

The next thing is the manner of making a *Bob* which is the same in this *Peal* as in *Tripples*, viz. a *Double Dodge* made upon the six hindmost *Bells*, there being two *Bells* that lie each of them a *Pin* in third's place.

The first Part into which this *Peal* is divided is 324; to Ring which there are three *Bobs* to be made, that is one every sixth leading of the *Hunt*, so that the last *Bob* brings the *Bells* round; or else first call the third into the plain Course,

N

then



then let it *Hunt* six leadings, then call the fourth into the plain Course, and let it *Hunt* six leadings, the next (being the third *Bob*) the second is call'd into the plain Course, which brings the *Bells* round as in the following *Peal*.

3 2 4 *Grandfire Cators.*

123456789			
152739486	+ Bob	138967254	194876532
125374648	143527698	163284957	149785623
172958364	134256789	136829475	184693725
127593846	153749286	Bob	148967352
192876543	135473968	124537698	164382957
129785634	173958462	142356789	146839275
182694735	137594826	154729386	Bob
128967453	193876524	145273968	132547698
162483957	139785642	174958263	123456789
126849275	183692745	147592836	

This *Peal* of 3 2 4. may likewise be Rung by making of a *Half Hunt* or observation *Bell* therein, and then call the first *Bob* when the *Half Hunt* is before the second *Bob*, call the *Half Hunt* into the plain Course at the distance of six leadings, the third and last *Bob* is at the same distance from the second, as the second was from the first, and this brings the *Bells* into their proper places again, and is to the same effect as the foregoing Method.

The

# The Art of Ringing.

179

The next part of this *Peal* is 540, in which there is six *Bobs*. The observation *Bell* or *Half Hunt* in the *Peal* prefixt, is the fourth, which being call'd into the plain Course, it must be call'd out the fifth leading of the *Whole Hunt*, the third *Bob* must be five leadings distance from the second, by which the *Half Hunt* is call'd into the plain Course again; and this Method with six *Bobs* goes 540 *Changes*; but any *Bell* may be made *Half Hunt*, by observing to call it first into the *Hunt*, then out again at five leadings, according to the foregoing directions.

*Catons* 540.

*Hunts* 1 4.

23456789

52739486

25374968

72958364

7593846

2876543

9785634

2694735

128967453

*Bob*

164328579

146235897

*Bob*

1132649387

125463978

*Bob*

134527698

143236789

*Bob*

162348579

126435897

*Bob*

154629387

145263978

*Bob*

132547698

123456789

The next Part is 882 in which there is six *Bobs*, and it is call'd according to the same

N 2

Method

180

*Campanalogia: Or,*

Method as 350 Tripples; viz. every time the *Whole Hunt* comes to take lead of the *Half Hunt*, call *Bob*, and this Method with seven *Bobs* goes 882 as followes.

882 *Cators*,*Humes* 13.

<i>Bob</i>	<i>Bob</i>	<i>Bob</i>	<i>Bob</i>
135729486	139876543	136482957	132547698
153274968	193785624	163849275	123456789
<i>Bob</i>	<i>Bob</i>	<i>Bob</i>	
137958264	138694725	134265879	
173592846	183967452	143628597	

The next Part of this *Peal* is 1008, which is divided into seven Courses, of three *Bobs* in a Course, to Ring which first call the *Half Hunt* of it of the plain Course, at the fourth leading of the *Whole Hunt*, the second *Bob* is at the distance of two leadings from the first, when the *Half Hunt* will be *Dodging* behind. The third, and last *Bob* of this Course, is at the distance of two leadings from the second, by which *Half Hunt* is call'd into the plain Course again, and finishes the first Course of the *Peal*; the same Method must be observed to the end of the same.

1008 Cators.

Hunts I 2.

Bob			
186423957	129587436	Bob	182476935
168249375	Bob	142693857	128749653
Bob	162385479	124968375	Bob
135769428	126834597	Bob	132547698
153674982	Bob	152769384	123456789
* Bob	172938546	125673948	
192854763	127395864	Bob	

Note, The Bob where this mark \* is placed is the last Bob of the first Course in this, and the following Peals and such Bobs as follow after such mark are only the last Bobs of the remaining Courses, contain'd in the foregoing and following Peals.

This Peal of 1260 is likewise divided into seven Courses of three Bobs in a Course, the Method whereof differs from that of 1008, only that the Half Hunt is not call'd out of the plain Course, till it hath Hunted six leadings, the other Bobs are by the same Method; and distance from each other in this Peal as in that, as by the following Peal will plainly appear.

## 1260 Caters.

Hunts 1 2.

<i>Bob</i>			
143527698	126948573	<i>Bob</i>	192758346
134256789	<i>Bob</i>	152684379	129573864
<i>Bob</i>	182934765	125863497	<i>Bob</i>
179836524	128397456	<i>Bob</i>	132547698
197385642	<i>Bob</i>	142876953	123456789
<i>Bob</i> *	172369584	124789635	---
162495837	127635948	<i>Bob</i>	---

The next Part of this *Peal* is 1386 (being near the 260 Part of the Whole) in which there is seven Courses of two *Bobs* in a Course to Ring, which the *Half Hunt* (which in the following *Peal* is the second) must be call'd out of the *Hunt*, at six leadings. The next *Bob* is at the distance of five leadings, by which the *Half Hunt* is call'd into the plain Course again, which finishes the first Course; the same Method must be observed throughout the *Peal*.

1386



1386 Cators.

Hunts 1 2.

<i>Bob</i>			
143327698	182364957	172896534	142759386
134236789	128639475	127985643	124573968
* <i>Bob</i>	<i>Bob</i>	<i>Bob</i>	<i>Bob</i>
162435879	192683745	152978463	132547698
126348597	129867354	125794836	123456789
<i>Bob</i>	<i>Bob</i>	<i>Bob</i>	

The next part being 2772 and about the 130 part of the whole is divided into seven Courses, of four *Bobs* in a Course, the Method to be observed in calling this *Peal* is this; the first *Bob*, the *Half Hunt* must *Dodge* in sixth and seventh places, the second *Bob* is at the distance of three leadings from the first, when the *Half Hunt* will *Dodge* in fourth and fifth's places with the *Bob* that was call'd out of the plain Course; the third *Bob* is at the distance of seven leadings, when the *Half Hunt* is call'd into the plain Course, the fourth *Bob* is at the distance of five leadings, the *Half* being then call'd out of the plain Course; and this finishes the first part or Course of this *Peal*; the same Method goes the remaining part of the same.

## 2772 Cators.

Hunts I 4.

Bob			
135729486	Bob *	137425968	197348263
153274968	156842937	Bob	179432856
Bob	165489273	125643879	Bob
186452937	Bob	152468397	132547698
168549273	189746352	Bob	123456789
Bob	198473625	168945723	
184263975	Bob	186497532	
148629357	173249586	Bob	

This *Peal* of 5670 being the 64th part of the whole, is divided into seven Courses and seven *Bobs* in a Course, the first *Bob* the *Half Hunt Dodge* in sixth and seventh place, the second and third are both of them at the distance of seven leadings, at both which the *Half Hunt Dodges* behind the fourth, is at seven leadings from the third, when the *Half Hunt Dodges* as at the first *Bob*, the fifth is seven leadings further when it *Dodges* in fourth and fifth's place, the sixth it is call'd into the plain Course, the seventh and last *Bob* is at the distance of three leadings from the sixth, the *Half Hunt* being call'd out of the plain Course, and this finishes the first Course, the same must be

ob.

# The Art of Ringing. 185

observed again to the end of the *Peal* as follows.

## 5670 *Catons*.

### Hunts I 4.

Bob			
135729489	183967452	Bob	125749386
153274968	Bob	163245879	152473968
Bob	136482957	136428597	Bob
137958264	163849275	Bob	198643725
173592846	Bob	157948263	189467312
Bob	134265879	175492836	Bob
139876542	143628597	Bob	132547698
193785624	* Bob	186342957	123456789
Bob	179846532	168439275	
138694725	197485623	Bob	

The next Part into which this *Peal* is divided contains 11340 *Changes*, and is the two and thirtieth part of the whole in which there are ninety eight *Bobs*, these *Bobs* are divided into seven Parts or Courses containing fourteen *Bobs* in a Course, and the Method of calling them is thus, the two first *Bobs* the *Half Hunt* must Dodge behind the third *Bob*, in sixth and seventh place the fourth *Bob* in fourth and fifth places, the fifth *Bob* the *Half Hunt* is call'd into the plain Course, all which *Bobs* are at the distance of 7 leadings each from

from the other) then the *Half Hunt* must *Hunt* six leadings before it is call'd out of the plain Course, the next being the seventh *Bob* the *Half Hunt* is before at the distance of six leadings, from the sixth *Bob*, the eighth, ninth, tenth, eleventh, twelfth and thirteenth *Bobs* are all of them at the distance of seven leadings each, the half being before at all of them as at the seventh *Bob*, the fourteenth and last *Bob* of this Course, is a *Double Bob*, being the very next leading to the thirteenth, at which *Bob* the *Half Hunt* must *Dodge* in sixth and seventh's places, and this finishes the first Course of this *Peal*; and the same Method must be observed in every Course to the end of the same.

11340 *Cators.*

Hunts 1 6.

<i>Bob</i>			
125729486	183967452	<i>Bob</i>	167953284
153274968	<i>Bob</i>	164285379	176592348
<i>Bob</i>	126482957	146823597	<i>Bob</i>
137958264	163849275	<i>Bob</i>	169378542
173592846	<i>Bob</i>	162547893	196735824
<i>Bob</i>	183462957	126458739	<i>Bob</i>
139876542	138649275	<i>Bob</i>	163894725
193785624	<i>Bob</i>	165729438	136987452
<i>Bob</i>	168432957	156274983	* <i>Bob</i>
138694725	186349275	<i>Bob</i>	
			184235679

184235679	178394625	Bob	154276938
148326597	187936452	127958634	bob
Bob	Bob	172596843	132547698
193482657	159873642	bob	123456789
139846275	195786325	145729683	-
Bob			

This *Peal* of *Catons* is likewise divided into several other Parts, as the one sixteenth Part containing 22680 *Changes*, also the one eighth part containing 45360 *Changes*, the one fourth part containing 90720 *Changes*, and the one half containing 181440 (the whole being 362880) any of which *Peals* being impossible ever to be Rung, we therefore thought it needless to trouble the Reader with what was impossible for him ever to Ring, for we may very reasonably suppose that the last *Peal* of 11340 (which to Ring will require ten hours time) is more than any Person will ever adventure upon, it being impossible to Ring a *Bell* so long; so that we need not Doubt of being excused in omitting that only which would have been of no use.

Having now gone through (and laid down plain and easy Rules for Ringing) several most excellent and Musical *Peals* for Mirth and Recreation, it may not be amiss if (for the instruction of those that are not acquainted therewith) we say somewhat in Brief of a Funeral or Dead *Peal*. It



It being customary not only in this City of London, upon the Death of any Person that is a Member of any of the Honourable Societies of Ringers therein (but likewise in most Countries and Towns in *England*, not only upon the death of a Ringer, but likewise of any young Man or Woman) at the Funeral of every such Person, to Ring a *Peal*; which *Peal* ought to be different from those for Mirth, and recreation (as the Musick at the Funeral of any Master of Musick, or the Ceremony at the Funeral of any Person belonging to Military Discipline) and may be perform'd two different ways; the one is by Ringing the *Bells* round at a set *Pull*, thereby keeping them up so as to delay their striking, that there may be the distance of three notes at least (according to the true compass of Ringing upon other occasions) between *Bell* and *Bell*, and having gone round one *Whole Pull* every *Bell* (except the tenor) to set and stand; whilst the tenor Rings one *Pull* in the same compass as before, and this is to be done whilst the Person deceased is bringing to the ground, and after he is interr'd to Ring a short *Peal* of round Ringing, or *Changes* in true time and compass and so conclude; — the other way is call'd buffeting the *Bells*, that is by tying pieces of leather, old hat or any other thing, that is pretty thick round the Ball of the Clapper

*The Art of Ringing.* 189

Clapper of each *Bell*, and then by Ringing them as before is shewn, they make a most Dolefull and Mournfull Sound, concluding with a short *Peal*; after the Funeral is over (the Clappers being clear as at other times) which way of Buffeting is most Practis'd in this City of *London*.

**FINIS.**

♀ Pendent Barometer

Marine Barometer

1 This rises and Falls above a Foot Perpendicularly in an open Tube without a Cistern of mercury at the bottom of it



♂ Diagonal Barometer

2 This moves 30 Inches for Fair & Foul weather & hath on the right hand a Thermometer. Shewing 90 degrees between the greatest Heat & Cold and a large Looking-glass in the middle.

3 The Mercurial & Marine Barometer & Thermometer are for Sea, all fitted in one Frame.



# ADVERTISEMENT.

## *A New Improvement of the* Quicksilver BAROMETER.

**T** Here is lately Invented and Fitted for Sale, a *curious Pendent BAROMETER*, wherein the *Quicksilver* rises and falls (perpendicularly) above Twelve Inches instead of Three in the common ones.

It discovers the most minute and smallest Alterations in the AIR; its tendencies being plainly seen while observing.

It foretels the Changes of the WEATHER, much sooner and more certainly than any Common Barometer; and this in an open Tube (without a Cistern of Quicksilver at the bottom) shewing the Expansion and Contraction of the Column of Mercury near Three Inches, (and this in the Equallest Tube I have yet met with) as well as rise and fall above a Foot.

The Invention has been Examined, Approved, and Applauded, by several Persons of Quality of the *Royal Society*, who thought it highly to Deserve the Encouragement of the Curious.

**H** E has also made an Excellent *Diagonal Barometer*, wherein the Mercury moves in an Oblique Tube for the Space of 30 Inches, instead of 3 in the common one; and is so nice as to divide an Inch into 100 parts. For the same purposes as the former.

It has a *Thermometer* on the same Frame, shewing 90 degrees of Variation between the greatest Heat to the greatest Cold.

And

## Advertisement.

And a *Looking-Glass* commodiously plac'd on the same Frame between the Barometer and Thermometer, whereby *Gentlemen* and *Ladies* at the same time they Dress, may accommodate their Habit to the Weather.

*An Invention not only very Curious, but no less Profitable than Pleasant.*

THE same Artist has made very compleatly, in one Frame, a *Mercurial* and a *Marine BAROMETER*, fitted for SEA, compounded of two *Thermometers*, by Dr. Hooke; which performs the same by Sea, as the *Mercurial* one doth at Land; being so ordered that the motion of the Ship doth not make it Vibrate, as it doth the *Mercurial* one.

The Scale of this *Barometer* may be enlarged to a Foot or more, if required. The Use hereof is to foresee STORMS at Sea, and their Abatement; and for that purpose were found of very great Advantage by Capt. Halley, in his late Southern Voyage.

— These Three prove the Verity of each other. All these are so contrived that they may be safely sent to any Place compleatly fixed — Printed Instructions will be given with every Glass, that will fully Explain their Uses to the meanest Capacity.

These and all other sorts of Portable Barometers and Thermometers, are Made and Sold in Ship-Court in the Old Bailey near Ludgate by JOHN PATRICK. And sold by John Marshall at the Archimedes and Golden Spectacles in Ludgate Street. And at most Eminent Watchmakers in London.



*John Patrick joined the  
Society of College Youths  
in the Year 1730.*